

### The Former Philippines thru Foreign Eyes

JAGOR'S TRAVELS IN THE PHILIPPINES

HEN the clock strikes twelve in Madrid,\* it is Nigerous from the twelve in the evening at Minister, and 41 seconds past eight from in the evening at Minister, that is to say, the latter claystein From the expension of the extra the former (7 hours, 54 minister, 35 seconds from Paris). Some time ago, however, while the new year was being celebrated in Madrid. It was only New Yoar's eve at Manila.

As Magaltan, who discovered the Philippines in his New Intermentable first circumavagistion of the globs, was commonable first circumavagistion of the globs, was following the sun in its apparent daily path around the words, every successive degree he companed on his eastern course added four minutes to the length of his day; and, when he reached the Philippines, the difference amounted to hixteen hours. This, however, apparently excepted his notice, for Elseno, the explain of the contraction of the co

New York seem is Marifa 1:64 mext morning.—C. † Navorrete, IV, 97 Obs. In.
1. According to Alb's ship journal, he perceived the difference at the Cape de

<sup>1</sup> According to one a map possess, as green are man, and a tener effect when to limit on 1949 9, 1322; "Y circ dis feet microries, y ceie dis tienen effect per jerves," (And this day was Wednesday and this day they had as Thursday.)

Change to

The error remained also unheeded in the Philippines. It was still, over there, the last day of the old year, while the rest of the world was commencing the new one; and this state of things continued till the close of 1844, when it was resolved, with the approval of the archbishop, to pass over New Year's eve for once altogether.6 Since that time the Philippines are considered to lie no longer in the distant west, but in the far east, and are about eight hours in advance of their mother country. The proper field for their commerce, however is what is to Europeans the far west; they were colonized thence, and for centuries, till 1811, they had almost no other communication with Europe but the indirect one by the annual voyage of the galleon between Manila and Acapulco. Now, however, when the eastern shores of the Pacific are at last beginning to teem with life, and, with unexampled speed, are pressing forward to grasp their stupendous future, the Philippines will no longer be able to remain in their past seclusion. No tropical Asiatic colony is so favorably situated for communication with the west coast of America, and it is only in a few matters that the Dutch Indies can compete with them for the favors of the Australian market. But, on the other hand, they will have to abandon their traffic with China, whose principal emporium Manila originally was, as well as that with those westward-

Future fo American and Anothelian Ireals.

looking countries of Asia. Europe's far east, which lie nearest to the Atlantic ports. ? ?

In a rate on the Dilli page of the masterly English (Hiskhust Society) transferred fillenging. I shall the customs engineers that in standar resultantion who meanterly course, had must the one when the Distinguese, who resulted it on an entirely course, had must the one of the custom of the Distinguese, who resulted it is not an entirely course, had must

Towards the close of the sisterath crusis the days upon the expects to the control of the sisterath crusis the days upon the sepects to affect the control of \$6.000 and their imports to at least \$1.139.000. In 1819, after 1819, Size the control of the control o

the control of the county of the

When the circumstances mentioned come to be real convenients

ized, the Philippines, or, at any rate, the principal market the New World. for their commerce, will finally fall within the limits of the western hemisphere, to which indeed they were Badajoz.

relegated by the illustrious Spanish geographers at The Bull issued by Alexander VI," on May 4, 1493, The Power's which divided the earth into two hemispheres, decreed that all heathen lands discovered in the eastern half should belong to the Portuguese; in the western half to the Spaniards. According to this arrangement, the latter could only claim the Philippines under the pretext that they were situated in the western hemisphere. The demarcation line was to run from the north to the south

a hundred leagues to the south-west of all the so-called Azores and Cape de Verde Islands. In accordance with the treaty of Tordesillas, negotiated between Spain and Portugal on June 7, 1494, and approved by Julius II.

in 1506, this line was drawn three hundred and seventy leagues west of the Cape de Verde Islands. At that time Spanish and Portuguese geographers Facily Special reckoned seventeen and one-half leagues to a degree and Perturness on the equator. In the latitude of the Cape de Verde Islands, three hundred and seventy leagues made 21° 55'. If to this we add the longitudinal difference between the westernmost point of the group and Cadiz, a difference of 18° 48', we get 40° 43' west, and 139° 17' east from Cadiz (in round numbers 47° west and 133° east), as the limits of the Spanish hemisphere. At that time,

however, the existing means for such calculations were The latitude was measured with imperfect astrolabes, or wooden auadrants, and calculated from very deficient

entirely insufficient

<sup>.</sup> Navorrete, IV, 54 Obs. In.

Estano, Special (Fra. 1) beables; the variation of the compass, morrower, was a limost unknown, as well as the use of the log. Both method and instruments were wanting for useful long itudinal calculations. It was under these circumstances that the Spaniards attempted, at Balajior, to prove to the protecting fortuguese that the eastern boundary line intersected the mouths of the Ganges, and proceeded to law claim to the possession of the Since Islands.

pgisi's proce collectation.

The eastern boundary should, in reality, have been drawn 461; father to the east, that is to say, as much further as it is from Berlin to the cosst of Labrador, or to the lesser Aliai for, in the lattice of Caleutra 461; are equivalent to two thousand five hundred and sevently, are equivalent to two thousand five hundred and sevently in longitude between the most conserved the difference in longitude between the most conserved the difference in longitude between the most conserved that the conserved conserved the conserved that the conserved the conserved that the conserved that the conserved th

Mohapen rijkts sold to Protugal,

as 100° 30°, while in reality it amounts to 150° 53°. The disputes between the Spanniants and the Portus, guess, occasioned by the uncertainty of the castement in the Spice Islands - were set at rest by an agreement in the Spice Islands - were set at rest by an agreement and in 135°, to which Charlet v. Unbendoed the spreaded in 135°, to which Charlet v. Unbendoed the real to 150° 00° 00° 00°. The Publippines, at that the same of 150°,00° docuts. The Publippines, at that

The distance from Manila to Hongkong is xix hundred fifty nautical miles, and the course is almost exactly south-east. The mail steamer running between the two

According to Gehler's PL.s. Lr. VI. 436, the log was first neutrinoid by Purchas in an obtaint of a visione in the Bast Baier in Post. Pagnetta does not fit if it in traile or mergation; but in the form offiling age of his work of the property of the pro

ports makes the trip in from three to four days. This Foreign mail allows of a fortnightly postal communication between the colony and the rest of the world."

This small steamer is the only thing to remind an Slight stars observer at Hongkong, a port thronged with the ships of all nations, that an island so specially favored in conditions and fertility lies in such close proximity.

Although the Philippines belong to Spain, there is but little commerce between the two countries. Once

the tie which bound them was so close that Manila was wont to celebrate the arrival of the Spanish mail with To Draws and bell-ringing, in honor of the successful achievement of so stupendous a journey. Until Portugal fell to Spain, the road round Africa to the Philippines was not open to Spanish vessels. The condition of the overland route is sufficiently shown by the fact that two Augustinian monks who, in 1603, were entrusted with an important message for the king, and who chose the direct line through Gos, Turkey, and Italy, needed three years for reaching Madrid.† The trade by Spanish ships, which the merchants Farmer Spanish

were compelled to patronize in order to avoid paying ships resistly an additional customs tax, in spite of the protective and duties for Spanish products, was almost exclusively in foreign goods to the colony and returning the products of the latter for foreign ports. The traffic with Spain was limited to the conveyance of officials, priests, and

The European and Josephan Marris thereasth Simpages, and Hagdang, distingues or is shown equivalentate from the other two pulsess. Letters therefore sould be received in the extent to pulse of the control of the cont \* The European until reaches Marin through Singapore and Handana The fare is \$80 for Kunspeace and \$20 for Chinamers 1 Zutien, Movers, 1, 275

Little commerce with Spain.

comical foreign

their usual necessaries, such as provisions, wine and other liquors; and, except a few French novels, some structionity dull books, histories of saints, and similar works.

The Bay of Manila is large enough to contain the united fleets of Burope; it has the reputation of being one of the fluest in the world. The major of all other productions are all the saint of the lively describcions of the few seams. Infals about of the lively describ-

tions of some travellers. The circular boy, one hundred

THE FORMER PHILIPPINES THRU PORGION RYES

twenty nautical miles in circumference, the waters of which wash the shore of five different provinces, is fraugain the neighborhood of Manish by a level cost, helind very consistent of the proposed of the control of the vegetation in the foreground, constains chelly of bases, 1956 and affects polens, was dired up by the sun: while in the far distance the dull uniformity of the landscept was broken by the blue hills of San Matee. In the tray means the runnerson surveiled consist vereibne proposed to the control of the contr

soon, nowever, canage into naxufanit and vedanit recfields.

The damila is situated on both sides of the river Pasig.

The town itself, surrounded with walls and ramparts,
with its low tild roofs and a few towers, had, in 1859,
the appearance of some ancient European fortress. Four
years later the greater part of it was destroyed by an
earthquake.

the appearance of some ancient European fortiess. Four years later the greater part of it was destroyed by an earthquake.

On June 3, 1863, at thirty-one minutes past seven in the evening, after a day of tremendous heat while all Manila was busy in its preparations for the festival of

euritquoir, t

Manile's

the evening, after a day of tremendous heat while all Manila was busy in its preparations for the festival of Corpus Cliniti, the ground suddenly rocked to and fro with great violence. The firmest buildings recled visibly, walls crumbled, and beams snapped in two. The firefreeding the first buildings recled visibly the state of the firmest buildings recled visibly.

was enough to change the whole town into a mass of ruins, and to bury alive hundreds of its inhabitants.\* A letter of the governor-general, which I have seen, states that the cathedral, the government-house, the barracks, and all the public buildings of Manila were entirely destroyed, and that the few private houses which remained standing threatened to fall in. Later accounts speak of four hundred killed and two thousand injured. and estimate the loss at eight millions of dellars. Fortysix public and five hundred and seventy private buildings were thrown down; twenty-eight public and five hundred twenty-eight private buildings were nearly destroyed.

and all the houses left standing were more or less injured.

At the same time, an earthquake of forty seconds' Deservice duration occurred at Cavite, the naval port of the Philinnines, and destroyed many buildings,

Three years afterwards, the Duc d'Alencon (Lucon el Destrocios in Mindanno: Paris, 1870, S. 38) found the traces of the solfed obs

catastrophe everywhere. Three sides of the principal square of the city, in which formerly stood the government, or governor's, palace, the cathedral, and the townhouse, were lying like dust heaps overgrown with weeds. All the large public edifices were "temporarily" con-

Manila is very often subject to earthquakes; the most Form Iron

fatal occurred in 1601; in 1610 (Nov. 30); in 1645 (Nov. 30); in 1658 (Aug. 20); in 1675; in 1699; in 1796; in 1824: in 1852: and in 1863. In 1645, six hundredt, or, according to some accounts, three thousand! persons perished, buried under the ruins of their houses. Their

\* Dr. Peden Pelser, in temporary change of the discuss and dying in the eatherhold, was the forement Filipine victim. Fourth raised in Spain for reflect never escaled the sufficees, but ask that each of Spainh role was it safe to comment on this in the Philipipines. C.

structed of wood; but pobody then seemed to plan any-

thing permanent.

<sup>\*</sup> Zulien XVIII. M. Velanie n. 139. \* Crossin Saleron Garb. S. 33

## rest rowness totalerives room research eres monastery, the church of the Augustinians, and that of

the Jesuits, were the only public buildings which remained standing.

Smaller shocks which subjectly set the hanging lamps swinging, occur very often and generally remain unnotited. The houses are on this account generally of but one story, and the loose volcanit soul on which

they are built may isseen the violence of the shock. Their heavy field rowfs, however, appear very imager-priare under such circumstances. Earthquakes are also of frequents occurrence in the previouse, but they are as a rule, cause so that camps, using so the houses being a rule of timber or hamboon, that they are remembered.

M. Alexis Perrey (Life, i.e., i

every accessible source, of the earthquakes which have

visited the Philippines, and particularly Manila. But the accounts, even of the most important, are very searnly, and the dates of their occurrence very unreliable. Of the minor shocks, only a few are memorised, those which were noticed by seientific observers accidentally present at the time. Advante (I. 141) mentions a termendous earthquate which occurred in 1610. I betterly quote his version

which occurred in 1610. I briefly quote his vertical of the details of the ceasartopic a. I find them mentioged nowhere else.

"Towards the class of Nevember, 1910, on \$1. Ancrew's Design of the control of the contro

so that only the typs of their branches were left above the

earth's surfect; through the power of the arthropke communities were punded against each other; it these down many buildings, and killed a great number of people. Its fury was greatest in Nover Segoria, where it opered the mountains, and created new late basins, vibrated so terriby that the people, unable to stand upon it, ind down and fastened themselves to the ground, as if they had been on a ship in a storny sea. In the vibrated so terriby that the people, unable to stand upon it, ind down and fastened themselves to the ground, as if they had been on a ship in a storny sea. In the cruming a village and killing its inhobitants, Asimmense portion of the diffrank in loth river; and own, where the stream was formerly bordered by a range of little of considerable altitude, its plants are nearly level.

bed of the river that waves arose like those of the ocean, or as if the water had been lashed by a furious wind. Those edifices which were of stone suffered the most damage, our church and the convent fell in, etc., etc."

II

The customs inspection, and the many formalities which Consideration in the many formalities which Consideration appear all the more wearfsome to the new arrival when contrasted with the easy routine of the English free ports of the east he has just quitted. The guarantee of a respectable merchant obtained for me, as a particular

favor, permission to disembark after a detention of sixten hours; but even then I was not allowed to take the smallest article of luggage on shore with me. During the south-west monsoon and the stormy 8

season that accompanies the change of monsoons, the roadstead is unsafe. Larger vessels are then obliged to seek protection in the port of Cavite, seven miles further down the coast; but during the north-cest monsoons they can safely anchor half a league from the coast. All ships under three hundred tons burden past

bridge, they lie in serried rows, extending from the shore to the middle of the stream, and bear witness by their numbers, as well as by the bustle and stir going on amongst them, to the activity of the home trade,

Silling up of In every rain-mossoon, the Pasig river sweeps such

riorr spouts. a quantity of sediment against the breakwater that just its removal keeps, as it seems, the dredging machine stationed there entirely occupied.

Free ferrisa The small number of the vessels in the roadstead. particularly of those of foreign countries, was the more remarkable as Manila was the only port in the Archipelago that had any commerce with foreign countries. It is true that since 1855 three other ports, to which a fourth may now be added, had gotten this privilege; but

at th time of my arrival, in March, 1859, not one of them had ever been entered by a foreign vessel, and it was a few weeks after my visit that the first English ship sailed into Iloilo to take in a cargo of sugar for Australia." The reason of this peculiarity laid partly in the feeble

Astignated development of agriculture, in spite of the unexampled fertility of the soil, but chiefly in the antiquated and artificially limited conditions of trade. The customs duties were in themselves not very high. They were generally about seven per cent, upon merchandise conveyed under the Spanish flag, and about twice as much for that carried in foreign bottoms. When the cargo was of Spanish production, the duty was three per cent. if carried in national vessels, eight per cent, if in foreign ships. The latter were only allowed, as a rule, to enter the port in ballast,

> The opening of this port proved so advantageous that I intended to have given a few interesting densitied to coals in a separate chapter, chiefly gathered from the weithit and written amounts of the Kaglab Vac-Coassi, the line Mr. N. Loney, and from other consider reports. In 1888, 121 foreign weeds, to the maximum of N.034 tons, and Spunish ships to the suggregate of 16,521 tons, entered the port of Manila. Routy all the fact come in bellant, incl. the with curpors. The latter both came and left in fright. (Regish Count) Report, 1889.

As, however, the principal wants of the colony were Discouragements imported from England and abroad, these were either for foreign kent back till an opportunity occurred of sending them in Spanish vessels, which charged nearly a treble freight (from £4 to £5 instead of from £11 to £2 per ton), and which only made their appearance in British ports at rare intervals, or they were sent to Singapore and Hongkong, where they were transferred to Spanish ships. Tonnage dues were levied, moreover, upon ships in ballast, and upon others which merely touched at Manila without unloading or taking in fresh cargo: and if a vessel under such circumstances landed even the smallest parcel, it was no longer rated as a ship in ballast, but charged on the higher scale. Vessels were therefore forced to enter the port entirely devoid of cargo, or carrying sufficient to cover the expense of the increased harbor dues; almost an impossibility for foreign ships, on account of the differential customs rates, which acted almost as a complete prohibition. The result

The exports of the colony were almost entirely limited Expert texes. to its raw produce, which was burdened with an export duty of three per cent. Exports leaving under the Spanish flag were only taxed to the amount of one per cent.; but, as scarcely any export trade existed with Spain, and as Spanish vessels, from their high rates of freight, were excluded from the carrying trade of the world, the boon to commerce was a delusive one.6

was that foreign vessels came there only in ballast, or when summoned for some particular object.

These inept excise laws, hampered with a hundred less drag suspicious forms, frightened away the whole carrying trade from the port; and its commission merchants were

In 1864 the total exports amounted to \$14,013,103; of this Bagland alone accounted for \$4,852,000, and the whole of the rost of Kunope for only \$102,477. The first amount close not include the teleprot only paid to Spain by the colony, \$1,117,114. (English Cosmil's Record, 1897).

frequently unable to dispose of the local produce. So triffing was the carrying trade that the total yearly average of the harbor dues, calculated from the returns of ten years, barely reached \$10,000.

The position of Manila, a central point betwist Japan, China, Annam, the English and Dutch ports of the Archipelago and Australia, is in itself extremely favorable to the development of a world-wide trade \* At the time of the north-eastern monsoons, during our winter, when vessels for the sake of shelter pass through the Straits of Gilolo on their way from the Indian Archipelago to China, they are obliged to pass close to Manila. They would find it a most convenient station, for the Philippines, as we have already mentioned, are particularly favorably placed for the west coast of America. A proof that the Spanish Ultramar minister fully



recognizes and appreciates these circumstances appears in his decree, of April 5, 1869, which is of the highest importance for the future of the colony. It probably would have been issued earlier had not the Spanish and colonial shipowners, pampered by the protective system, obstinately struggled against an innovation which impaired their former privileges and forced them to greater activity. The most noteworthy points of the decree are the

ereditions.

moderation of the differential duties, and their entire extinction at the expiration of two years; the abrogation of all export duties; and the consolidation of the more annoying port dues into one single charge. When the Spaniards landed in the Philippines they

found the inhabitants clad in silks and cotton stuffs, which were imported by Chinese ships to exchange for

oute sold that Manila was perhaps the most fortunately situated

gold-dust, sapan wood," holothurian, edible birds' nests, and skins. The Islands were also in communication with Japan, Cambodia, Siami, the Moluccas, and the Malay Archipelago. De Barros mentions that vessels from Luzon visited Malacca in 1511.2

The greater order which reigned in the Philippines Early extension after the advent of the Spaniards, and still more the commerce they opened with America and indirectly with Europe, had the effect of greatly increasing the Island trade, and of extending it beyond the Indies to the Persian Gulf. Manila was the great mart for the products of Eastern Asia, with which it loaded the galleons that, as early as 1565, sailed to and from New Spain (at first to Navidad, after 1602 to Acapulco),

and brought back silver as their principal return freight. The merchants in New Spain and Peru found this delicary of commerce so advantageous, that the result was very monotonists. damaging to the exports from the mother country, whose manufactured goods were unable to compete with the Indian cottons and the Chinese silks. The spoilt

monopolists of Seville demanded therefore the abandon-\* Stephi or Silven, Floridanist Austri, Perturbhoto or Brodi wood, to which the surgice of Brodi wood, to which the surgice of Brodi services. The editor issues of Amotor remork of Brodi. "The editor issues of Amotor remork of Brodi." The editor issues of the Publication to their in spire of the editor issues of the Publication to their in spire of the editor issues of the Publication to their in spire of the editor is supported by the editor of the editor is the editor of the editor of

† Large quantities of recall sussed shells (Capeaca moss-te) were sent at this period to Signs, where they are still used as succes-1 Beraham' Hee, hydenyr, Mennie,

 Manife now first foursied in 1571, but or early as 1568, Unisonta, Legangi's pilot, had found the way back through the Parilla Dean while he was seeking in the bights routhern light uses for a forceable next-next seek wint. Starting spending,  ment of a colony white required considerable yearly contributions from the home exchergent which atoo contributions from the home exchergent which atoo in the way of the mechar country's exploiting her American colonies, and which let the silver of 14st Majasty's deministon pass into the hands of the heathen. Since the contribution of the colonies of the continualty through the colonies of the c

forced, in the interests of the mother country, two advantages from China, either directly, or through Marilla. The inhabitants of the Philippines were alone permitted to send Chines goods to America, but only to the yearly value of \$353,000. The return trade was limited to \$500,000. The first amount was afterwards increased to \$500,000. The first amount was afterwards in created to \$500,000 to the Spanish were farbidden to visit China, that they were obliged to wast the arrival of the junks.

they were obliged to await the arrival of the junks Finally, in 1700. Chinene good wees strictly prohibited throughout the whole of the Spanish possessions in both hemilaphers. A decree of 1734 (amplified in 1769) once more permitted trade with China, and increased the maximum value of the amount freightage to Aespuiko to \$500,000 (silver) and that of the return trade to twice the amount.

Higher limit on A

After the galleons to Acapulco, which had been maintained at the expense of the government treasury, had stopped their voyages, commerce with America was

<sup>\*</sup> Kottenkamp L. 1994.

<sup>†</sup> At first the maximum value of the imparts only were limited, and the Marilla to put on each other constraints were not over acromolous it nesting false advances as to their worth to put on each to there enclosed stand over theel to the insurant of above expected. According to Max, however, then there it is not to be removed to the control of the c

handled by merchants who were permitted in 1820, to export goods up to \$750,000 annually from the Philinnines and to visit San Blas. Guavaguil and Callao. hesides Acapulco.

This concession, however, was not sufficient to compensate Philippine commerce for the injuries it suffered through the separation of Mexico from Spain. The mate possession of Manila by the English, in 1762, made its inhabitants acquainted with many industrial products which the imports from China and India were unable to offer them. To satisfy these new cravings Spanish men-of war were sent, towards the close of 1764, to the colony with products of Spanish industries, such as wine, provisions, hats, cloth, hardware, and fancy articles.

The Manila merchants, accustomed to a lucrative Manile trade with Acapulco, strenuously resisted this innovation, although it was a considerable source of profit to mountain. them, for the Crown purchased the Indian and Chinese merchandise for its return freights from Manila at double their original value. In 1784, however, the last of these ships arrived.

After the English invasion, European vessels were Suite/specif strictly forbidden to visit Manila; but as that city did Errores not want to do without Indian merchandise, and could not import it in its own ships, it was brought there in English and French bottoms, which assumed a Turkish name, and were provided with an Indian sham-

contain

In 1785, the Compania de Filipinas obtained a mono- rupoly of the trade between Spain and the colony, but it "Palippa was not allowed to interfere with the direct traffic between Acapulco and Manila. The desire was to acquire large quantities of colonial produce, silk, indigo, cinnamon, cotton, pepper, etc., in order to export it somewhat

ss wis don later on by the scatter of enture in Javabut as it was unable to obtain compuls or labor. It entirely failed in its attempted artificial development of agriculture.

The Computation and Computation of the Computation of the Computation and C

neous system of operation, and the inequacity of use officials (it point, for example, \$13.50 for a picul of pepper which cost, from three to four dellars in Somatra). In 1789 foreign ships were allowed to import Chinese

and Indian produce, but none from Europe. In 1800 on English commercial house checked permission to establish itself in Manila. In 1811, offer the conclusion of the peace with France, the some permission, with

establish fisch in Manila. In [81], after the conclusion of the peace with France, the same permission, with greater or less restrictions, was granted to all foreigners. In [820 the direct trade between the Philippines and Spain was thrown open without any limitations to the experts of colonial produce, on the Candidion that the

value of the Indian and Chinese goods in each expedition should not exceed \$55,000. Ever since 1833, when the privileges of the timeset of expired, the trade has been permitted in Manilar Racion drips, however, being charged double dues. Four two ports have been thrown open to general trade since 1855; and in 1890 the library term of the privilege of the trade of the con-

Today, after three centuries of aimost undisturbed Spanish rule. Manial has by no means added to the importance it possessed shortly after the advent of the Spaniards. The isolation of Jopan and the Indo-Chinese empires, a direct consequence of the importunities and pretensions of the Catholic missioneries.<sup>2</sup>

# MISSING

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FOREIGN EYES

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Issue

THE FORMER PHILIPPINES THRU FOREIGH FYES The Dutch officials are choicated at home in selected to a so-consequently observed to the East Indian service. The art ""showed of managing the survices the capabiling of prestage, which is considered the secret of the Dutch power over a substitute of the secret of the Dutch power over a particular in their checation. The Dutch therefore, manage their interconse with the natives, no motter how much they intend to get out of thom, in strict accordance with customary usage (arbive) they never wound the actives 'more people and never expose themoment of the natives' more people and never expose them.

Things are different in the Philippines. With the Sound of the exception of those officials whose stay is limited by the rules of the service, or by the place-hunting that ensues at every change in the Spanish ministry, few Spaniards who have once settled in the colony ever return home. It is forbidden to the priests, and most of the rest have no means of doing so. A considerable portion of them consist of subaltern officers, soldiers, soilors, nolitical delinquents and refugees whom the mothercountry has got rid of; and not seldom of adventurers delicient both in means and desire for the journey back. for their life in the colony is far pleasanter than that' they were forced to lead in Spain. These latter arrivewithout the slightest knowledge of the country and without being in the less prepared for a solourn there. Many of them are so key that they won't take the trouble to learn the language even if they marry a daughter of the soil. Their servants understand Spanish, and clandestinely watch the conversation and the actions. and become nequalited with all the secrets, of their indiscreet masters, to whom the Pilipinos remain an eniema which their conceit prevents them attempting

to decipher.

THE FORMER PHILIPPINES THRU FOREIGN EVES \*It is easy to understand how Filipino respect for Buggish fack

Europeans must be diminished by the numbers of these uneducated, improvident, and extravagant Spaniards, who, no matter what may have been their position at home, are all determined to play the master in the colone The relative standing of the Filipinos naturally profits

by all this, and it would be difficult to find a colony in which the natives, taken all in all, feel more comfortable than in the Philippines. They have adopted the religion, the manners, and the customs of their rulers; and shough legally not on an equal footing with the latter, they are by no means separated from them by the high barriers

with which, not to mention Java, the churlish reserve of the English has surrounded the natives of the other colonics. The same religion, a similar form of worship, an existence intermixed with that of the indirenous nonulation, all tend to bring the Europeans and the Indians

together. That they have done so is proved by the existence of the proportionately very numerous hand of mestizar who inhabit the Islands. The Spaniards and the Portuguese appear, in fact,

to be the only Euroneans who take not in tronical countries. They are capable of permanent and fruitful amalgamation\* with the natives.

place by selection; the unit offe, and the select thrive.

\* Bertilion (Archimeterral et Archimetetion, that Energel, des Sciences Hedicales) specifies the capacity of the Spannersk for acclimatization in traspect some rows a more outner, the more positives it in the perform of the contribution of a certainty, and reads with great a phenical, a state of a things to things in this in a matter of size. Thus Septemb Read I as it residently turns been abundantly considered with that of Arthur. The source of the size of the state of the size o In Mantingue, where from eight to sine thousan I white here on the proceeds of the rail of 123,000 of the releved more, the correlation is diminishing in series increasing. The French creates over to jove hot the power of maintaining thems live, in properties to the existing turnes of sub-intence, on high multipleine. Provides which do not from time to time fortife themselves with a sitein of freeh European blood, die put in from street to four pen rutions. The same thing betterns in the Euclish, but not in the Soomsh Antilles, although the climate and the natural surrounding sure the same. According to Ramin Aria Segra, the death-rate is another among the cruster, and greater smooth the anticet, than it is in Spain; the meriality among the portoon, browner, is come feelings. The same entire nature than the cell or limitation of the Spainial stage takes.

of meeting than enterent.

Filipier bonds

The want of originality, which among the mestizes, Initiative and annears to arise from their equivocal position, is also maked to be found among the natives. Distinctly marked national customs, which one would naturally expect to find in such an isolated part of the world, are sought for in vain, and again and again the stranger remarks that everything has been learned and is only a vencer.

As Spain forcibly expelled the civilization of the Acoustonia Moors, and in Peru that of the Incas, so in the Philipnines if has understood how to set aside an equally wellfounded one, by appropriating in an incredible manner, in order to take root itself the more quickly, all existing

forms and abuses.9

The uncivilized inhabitants of the Philippines quickly Islants adopted the rites, forms, and ceremonies of the strange attenue. religion, and, at the same time, copied the personal externalities of their new masters, learning to despise their own manners and customs as heathenish and barbarisn. Nowadays, forsooth, they sing Andalusian songs, and dance Spanish dances; but in what sort of way? They imitate everything that passes before their eyes without using their intelligence to appreciate it. It is this which makes both themselves and their artistic productions wearisome, devoid of character, and, I may add, unnatural, in spite of the skill and patience they devote to them. These two peculiarities, moreover, are invariably to be found amongst nations whose civiliza-

tion is but little developed; the patience so much admired

is often nothing but waste of time and breath, quite Depoys, aproxing of the meson employed to America to obtain the same end, sers. "I may correspond that it is improvided to magniful the Christian religion on the reps. And conveners uses to a supparation to regards the Constant remains the tra-lation repair without mixing up their oway feed instantion and extensions with those of Christianity Life's has been even criterials of it, that it are time the objects of sign the question, whether it was briefle to set absume their in great whether it is over of the proceeding in, that the question was decided in layor of the author-pecting.

out of proportion to the end in view, and the skill is the mere consequence of the backward state of the division of labor.

Educated Filipins

If I entered the house of a well-to-do Filipino, who spoke Spanish, I was received with the same phrases his model, a Spanisad, would employ; but I always had the feeling that it was out of place. In countries where the native population remains true to its ancient customs this is not the case; and whenever I have not been received with population.

Nation of special

ceived with proper respect, I have remarked that the apparent fact proceeded from a difference in social forms, not more to be wondered at than a difference in weights and measures. In Java, and particularly in Borneo and the Moluccas, the utensils in daily use are ornamented with so refined a feeling for form and color, that they are praised by our artists as patterns of ornamentation and afford a proof that the labor is one of love, and that it is presided over by an acute intelligence. Such a sense of beauty is seldom to be met with in the Philippines. Everything there is imitation or careless ! makeshift. Even the piña embroideries, which are fabricated with such wonderful patience and skill, and are so celebrated for the fineness of the work, are, as a rule, spiritless imitations of Spanish patterns. One is involuntarily led to these conclusions by a comparison of the art products of the Spanish-American communities with those of more barbarous races. The Berlin Ethnographical Museum contains many proofs of the

Indul.

facts I have just mentioned.

The oars used in the Philippines are usually made of bamboo poles, with a board tied to their extremities with strips of rattan. If they happen to break, so much the better; for the fatiguing labor of rowing must necessarily be suspended till they are mended neads.

with a want of dignity . . . . .

Japar's Travels in the Philippines

In Java the carabao-carts, which are completely corder

covered in as a protection against the rain, are orna- free last of

mented with many tasteful patterns. The roofless

wagons used in the Philippines are roughly put together

at the last moment. When it is necessary to protect

The English and the Dutch are always looked upon

their contents from the wet, an old pair of mats is thrown

With the exception of this want of national individual- Spanish raise ity, and the loss of the distinguishing manners and cus- and benesies toms which constitute the chief charm of most eastern peoples, the Filipino is an interesting study of a type of mankind existing in the easiest natural conditions. The arbitrary rule of their chiefs, and the iron shackles of slavery, were abolished by the Spaniards shortly after their arrival: and peace and security reigned in the place of war and rapine. The Spanish rule in these Islands was always a mild one, not because the laws, which treated the natives like children, were wonderfully gentle, but because the causes did not exist which caused such scandalous cruelties in Spanish America and in the colonies of other nations.

It was fortunate for the Filipinos that their islands Grandways possessed no wealth in the shape of precious metals or have formed the valuable spices. In the earlier days of maritime traffic

over them, more for the purpose of appeasing the prejudices of the "Castilians" than really to keep off the rain.

as strangers in the tropics; their influence never touches the ancient native customs which culminate in the religion of the country. But the populations whom the Spaniards have converted to their religion have lost all originality, all sense of nationality; yet the alien religion has never really penetrated into their inmost being, they never & feel it to be a source of moral support, and it is no accidental coincidence that they are all more or less stamped

there was little possibility of exporting the numerous agricultural productions of the colony; and it was scarcely worth while, therefore, to make the most of the land The few Spaniards who resided in the colony found such an easy method of making money in the commerce with China and Mexico, by means of the galleons, that they held themselves aloof from all economical enterprises which had little attraction for their haughty inclinations. and would have imposed the severest labor on the Filininos. Taking into consideration the wearisome and dangerous navigation of the time, it was, moreover impossible for the Spaniards, upon whom their too large possessions in America already imposed an exhausting man-tax, to maintain a strong armed force in the Philippines. The subjection, which had been inaugurated by a dazzling military exploit, was chiefly accomplished by the assistance of the friar orders, whose missionaries were taught to employ extreme prudence and nationce. The Philippines were thus principally won by a peaceful conquest.

then the

The taxes laid upon the peoples were so trifling that they did not suffice for the administration of the colony. The difference was covered by yearly contributions from Mexico. The extortions of unconscientious officials were by no means conspicuous by their absence. Cruelties, however, such as were practised in the American mining districts, or in the manufactures of Quito, never occurred in the Philippines.

A land of experiently.

Uncultivated land was free, and was at the service of any one willing to make it productive; if, however, it remained untilled for two years, it reverted to the crown \*

As a matter of fact, productive land is always appropriated, and in many sets of the Islands is difficult and expensive to purchase. Near Manila, and parts of the tauston of miscure was expensive to purcease. event control bulecon, land has for many years post cost over \$225 (silver) on acre-

The only tax which the Filipinos pay is the poll-tax. Lee term known as the tribute, which originally, three hundred years ago, amounted to one dollar for every pair of adults, and in a country where all marry early, and the sexes are equally divided, really constituted a familytax. By degrees the tribute has been raised to two and one-sixteenth dollars. An adult, therefore, male or female, pays one and one-thirty-second dollar, and that from his sixteenth to his sixtieth year. Besides this, every man has to give forty days' labor every year to the State. This vassalage (volus y servicios) is divided into ordinary and extraordinary services: the first consists of the duties appertaining to a watchman or messenger. in cleaning the courts of justice, and in other light labors; the second in road-making, and similar heavier kinds of work, for the benefit of villages and provinces. The little use, however, that is made of these services, is shown by the fact that any one can obtain a release from them for a sum which at most is not more than three dollars. No personal service is required of women. A little further on, important details about the tax from official sources, which were placed at my disposal in the colonial office, appear in a short special chapter. In other countries, with an equally mild climate, and Foresteen

an equally fertile soil, the natives, unless they had reached factors. a higher degree of civilization than that of the Philippine Islanders, would have been ground down by native princes, or ruthlessly plundered and destroyed by forcigners. In these isolated Islands, so richly endowed by nature, where pressure from above, impulse from within. and every stimulus from the outside are wanting, the satisfaction of a few trifling wants is sufficient for an existence with ample comfort. Of all countries in the world, the Philippines have the greatest claim to be considered a lotos-eating Utonia. The traveller, whose

knowledge of the dolce far niente is derived from Naples has no real appreciation of it; it only blossoms under the shade of palm-trees. These notes of travel will contain plenty of examples to support this. One trip across the Pasig gives a foretaste of life in the interior of the country Low wooden cabins and bamboo huts, surmounted with green foliage and blossoming flowers, are picturesquely grouped with areca palms, and tall, feather-headed bamboos, upon its banks. Sometimes the enclosures run down into the stream itself, some of them being duck-grounds, and others bathing-places. The shore is fringed with canoes, nets, rafts, and fishing apparatus, Heavily-laden boats float down the stream, and small canoes ply from bank to bank between the groups of bathers. The most lively traffic is to be seen in the ticulas, large sheds, corresponding to the Javanese harongs, which open upon the river, the great channel for

They are a source of great attraction to the passing sailors, who resort to them for eating, drinking, and other convivialities; and while away the time there in gambling. betel chewing, and smoking, with idle companions of both sexes. At times somebody may be seen floating down the

Mersina mitaa

traffic.

stream asleep on a heap of coconuts. If the nuts run ashore, the sleeper rouses himself, pushes off with a long bamboo, and contentedly relapses into slumber, as his eccentric raft regains the current of the river. One cut of his bolo-knife easily detaches sufficient of the husk of the nuts to allow of their being fastened together; in this way a kind of wreath is formed which encircles and holds together the loose nuts piled up in the middle. The arduous labors of many centuries have left as

their legacy a perfect system of transport; but in these Islands man can obtain many of his requirements direct

#### Jayer's Trends in the Phillippings

with proportionately trifling lawor, and a large amount of comfort for himself

or commont for immedit.

Off the Liand of Talms, in the great Lagoon of Bay, Rev ped
my beatmen bought for a few couries several dozens
of find quite twelve inches long; and those which they
of find quite twelve inches long; and those which they
of the couries are supplied to the couries of the couries of

2.a G.), first throwing away the dead ones from the handfuls they picked up from the bottom of the shallow

water

Nearly all the dwellings are built by the water's edge, and the view is a natural edf maintaining highways, on well colors. The river is a natural edf maintaining highways is the colors of the carried to the foot of the mountain. The black of the people, built upon pile, are to be seen thickly scattered about its banks, and particularly about its broad mouths. The appropriateness of their position is evident, for the stream is at once the very center of activity and the most convenient part for its pursuit of their collings. At each tide the takes of first are more of their collings. At each tide the takes of first are more of their collings. At each tide the takes of first are more of their collings. At each tide the takes of first are more of their collings. At each tide the takes of first are more of their collings and their most of their collings are collings and collings are collings are collings and collings are collings and collings are collings are collings and collings are collings.

The riverside is a pretty sight when men, women and Biomaches seawed.

The riverside is a pretty sight when men, women and Biomaches children are bathing and frolicking in the shade of the serious palm-trees; and others are filling their water-vexels, large hamboos, which they carry on their shoulders, or large hamboos, which they carry on their shoulders, or jars, which they bear ou their heads; and when the boys are standing unright on the broad books of the combnos

and riding triumphantly into the water.

Seco-yale

It is ner soo that the ecce-pain meet four-riske, a tree that supplies not only their food and drink, but allowerey material necessary for the construction of hust and the manufacture of the various strices which they are not the construction of the state of the production of the state of the construction of the state of the construction of the state of

Nipa-pai

in the ocean vagabondage of Malaysia and Polyneia. Close to the concertee grow dumps of the stanted nipe-palms, which only flour through other Sugar, before the concertee the superpalms, which only flouring the best produced to their leaves timing the best produced to their leaves timing the best produced to the superpart of their leaves timing the best produced to the superpart of the superpar

Pertite fo

Towards the interior the landscape is covered with rice-fields, which yearly receive a fresh layer of fertile soil, washed down from the mountains by the river, and spread over their surface by the overflowing of its waters and which in consequence never require any fertilizer. The carabao, the favorite domestic animal of the Malays, and which they keep especially for agri-

<sup>\*</sup> Ind. July 19: 101

In Bultenerge's parden, Jave, the author observed, however, some speciers growing in Irob water.

cultural purposes, prefers these regions to all others, It leves to wallow in the mud, and is not fit for work

unless permitted to frequent the water. Bamboos with luxuriant leafy tops grow plentifully member by the buts in the rice-fields which fringe the banks of the river. In my former sketches of travel I have

endeavored to describe how much this gigantic plant contributes to the comfort and convenience of tropical life.' Since then I have become acquainted with many curious nurnoses to which it is turned, but to describe them here would be out of place." I may be allowed, however, to briefly cite a few examples showing what numerous results are obtained from simple means. Nature has endowed these splendid plants, which perhaps surpass all others in beauty, with so many useful qualities, and delivered them into the hands of mankind so ready for immediate use, that a few sharp cuts suffice to convert them into all kinds of various utensils. The hambon possesses in proportion to its lightness, an streetextraordinary strength; the result of its round shape, and the regularity of the joints in its stem. The parallel

position and toughness of its fibers render it easy to split, and, when split, its pieces are of extraordinary pliability and elasticity. To the gravelly soil on which it grows it owes its durability, and its firm, even, and always clean surface, the brilliancy and color of which improve by use. And finally, it is a great thing for a population with such limited means of conveyance Conscience that the bamboo is to be found in such abundance in all kinds of localities and of all dimensions from a few millimeters to ten or fifteen centimeters in diameter, even

<sup>\*</sup> Boyle, in his Advantage course the Darly, mention that he actually found parametric their-boxes, made of bamboo, in our remote the David Bassian are with them in Boxes and the bassian are with them in Boxes and the bassian are with the bassian are with the bassian are with the bassian are such that the bassian are the bassian are placed with a piece of bassian. The tim for took for. Wallace observed the same muthod of artifating a light in Terratic.

sometimes to twice this amount; and that, on account of its unsurpassed floating power, it is pre-eminently fitted for locomotion in a country poor in roads but rich in watercourses. A blow with a bolo is generally enough to cut down a strong stem. If the thin joints are taken away, hollow stems of different thicknesses can be slid into one another like the parts of a telescope. From bamboos split in half, gutters, troughs, and roofing tiles can be made. Split into several slats, which can be again divided into small strips and fibers for the manufacture of baskets, ropes, mats, and fine plaiting work, they can be made into frames and stands. Two curs in the same place make a round hole through which a stem of corresponding diameter can be firmly introduced. If a similar opening is made in a second upright, the horizontal stem can be run through both. Gates. closing perpendicularly or horizontally in frames moving without friction on a perpendicular or horizontal axis, can be made in this way.

Two deep cuts give an angular shape to the stemand when its two sides are wide enough apart to admit of a cross-stem being placed between them, they can be employed as roof-ridges or for the framework of tables and chairs; a quantity of flat split pieces of bamboo being fastened on top of them with chair-cane, These split pieces then form the seats of the chairs and the tops of the tables, instead of the boards and large bamboo laths used at other times. It is equally easy to make an oblong opening in a large bambon in which to fit the laths of a stand.

A couple of cuts are almost enough to make a fork, a pair of tongs or a hook.

If one makes a hole as big as the end of one's finger in a large bambeo close under a joint, one obtains by fastening a small piece of cloth to the open end, a syphon or a filter. If a piece of bamboo is solit down to the joint in strips, and the strips be bound together with others horizontally interlaced, it makes a conical basket, If the strips are cut shorter, it makes a peddler's pack basket. If a long handle is added, and it is filled with tar, it can be used as a signal torch. If shallower baskets of the same dimensions, but with their bottoms cut off or punched out, are placed inside these conical ones, the two together make capital snare baskets for crabs and fish. If a bamboo stem be cut off just below the joint, and its lower edge be split up into a cogged rim, it makes, when the partition of the joint is punched out, an earth-auger, a fountain-pine, and many things of the kind.

Strangers travelling in the interior have daily fresh Panarca of opportunities of enjoying the hospitality of nature, but The atmosphere is so equitably warm that one would gladly dispense with all clothing except a sun-hat and a pair of light shoes. Should one be tempted to pass the night in the open air, the construction of a hut from the leaves of the palm and the fern is the work of a few minutes; but in even the smallest village the traveller varue finds a "common house" (casa real), in which he can take up his quarters and be supplied with the necessaries of life at the market price. There too be will always meet with semaneros (those who perform menial duties) ready to serve him as messingers or porters for the most trifling remuneration. But long practice has taught me that their services principally consist in doing nothing. On one occasion I wanted to send a man who was playing cards and drinking tubu (fresh or weakly-fermented palm-sap) with his companions, on an errand. Without stopping his game the fellow Present excused himself on the ground of being a prisoner, and room tile

regionst spylaga

certainly little cause to grumble. The only inconvenience to which they are exposed are the flogging which the local authorities very liberally dispense by the dozens to the control of the control of the control of the bedly point, but the control of the control of the make little impression on a people who have been accused to export punishment from their youth purposed. Their acquaintances stand round the sufferer, while low it nature.

Charge J.

how it tastes.

A long residence amongst the cornest, quiet, and signified Malays, who are most anxious for their honer, while most submissive to their superiors, makes the contrast in character estibilisted by the natives of the Philippines, who yet belong to the Malay roce, all the more stating. The change in their anstrue appears to be a stating. The change in their anstrue appears to be a characteristic ample to be extended to the contrast of the contrast contrast and their anstrue appears to be a characteristic ample to between the nearly configuration. America. The class distinctions and the deepoile oppression prevolut under their former cisins doubless rendered the Flipinos of the yest more tike the Malays of today.

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The Simil Self for Installers THE environs of Manila, the Pasis, and the Lagon of Bay, which are visited by every fresh arrival in the colony, have been so that described that I have nestricted myself to a few short of the colony, have been so that described that I have nestricted myself to a few short of the control of the colony of the

Samar and Levte. Before doing this, however, it will not be out of place to glance at the map and give some

slight description of their geographical conditions. The Philippine Archipelago lies between Borneo and Archipelago Formosa, and separates the northern Pacific Ocean from

the China Sca. It covers fourteen and one-half degrees of latitude, and extends from the Sulu Islands in the south, in the fifth parallel of north latitude, to the Babuvans in the north in latitude 19° 30'. If, however, the Bashee or Batanes Islands be included, its area may be said to extend to the twenty-first parallel of north latitude. But neither southwards or northwards does Spanish rule extend to these extreme limits, nor, in fact, does it always reach the far interior of the larger islands. From the eastern to the western extremity of the Philippines the distance is about nine degrees of longitude. Two islands, Luzon, with an area of two thousand, and Mindango, with one of more than one thousand five bundred square miles, are together larger than all the rest. The seven next largest islands are Polawan Samar. Panav, Mindoro, Leyte, Negros, and Cebu; of which the first measures about two hundred and fifty, and the last about one hundred square miles. Then come Bohol and Masbate, each about half the size of Cebu: twenty smaller islands, still of some importance; and numerous tiny islets, rocks, and reefs.

The Philippines are extremely favored by their posi- Perrel to tion and conditions. Their extension from north to parlies south, over 16° of latitude, obtains for them a variety of climate which the Dutch Indies, whose largest dismeter, their extent in latitude north and south of the equator being but trifling, runs from the east to the west, by no means enjoy. The advantages accruing from their neighborhood to the equator are added to those

acquired from the natural variety of their climate; and the produce of both the torrid and temperate zones, the palm-tree and the fir, the pine-apple, the corn ear and the potato, flourish side by side upon their shores.

The larger islands contain out in lowers women block.

The larger islands contain out in lowers were determined for include in activities the market for the contained for include he interior; they are rich, too, in safe harbons and count, lies another lower of refuge for abjust in distress. Another larger is the larger in the larger in

scarcely a wild beast to be found. It seems that only two civets happen to appear: Miro (paradoxurus phil-

straturing.

ignition is Ten's) and galong (time templitum Gray). Leaves surpasses all the other issues, not only in size but in importance; and its fertility and in the other insurprises and in the templitum of the control of th

were once separated and formed two distinct islands. The large eastern promontory, well-night as long as the

northern portion, is nearly cut in half by two deep bays. which, starting from opposite points on the south-eastern and north-western coasts, almost merge their waters in the center of the peninsula; the Bay of Ragay, and the Bay of Sorod. In fact, the southern portion of Luxen may be better described as two small peninsulas lying next to one another in parallel positions, and joined together by a narrow neck of land scarcely three miles broad. Two small streams which rise nearly in the same spot and pour themselves into the two opposite gulfs. make the separation almost complete, and form at the same time the boundary between the province of Tayabas on the west, and that of Camarines on the east. The western portion, indeed, consists almost entirely of the first-named district, and the eastern is divided into the provinces of North Camarines, South Camarines, and Albay. The first of these three is divided from Tayahas by the boundary already mentioned, and from South Camarines by a line drawn from the southern shore of the Bay of San Miguel on the north to the opposite coast. The eastern extremity of the peninsula forms the province of Albay; separated from South Camarines by a line which runs from Donzol, on the south coast, northwards across the volcano of Mayon, and which then, inclining to the west, reaches the northern shore. A look at the map will make these explanations clearer

the dry. The south-west monsoon brings the rainy season, at the time of our summer, to the provinces which lie exposed to the south and west winds. On the northern and eastern coasts the heaviest downpours take place (in our winter months) during the north-eastern monsoons. The ruggedness of the country and its numerous mountains cause, in certain districts, many variations in these normal meteorological conditions.

There are two seasons in the Philippines, the wet and The recessors.

The dry season lasts in Manila from November till June (duration of the north-east monoson); rain prevasis during the renaining months (duration of the southwast monoson). The heavier st indial occurs in September; March and April are frequently free from rain. From October to Pebruary inclusively the weather is coel and dry (prevalence of N.W. N., and N.E., winds); March, April, and May are warm and dry (prevalence of E.N.E., E., and E.S.E. winds); and from June till the end of September it is buniful and moderately warm.

There has been an observatory for many years past in Manila under the management of the Jesuits. The following is an epitome of the yearly meteorological report for 1867, for which I am indebted to Professor Dove:

for 1867, for which I am indebted to Professor Dove: Barometrical randings.—The average height of the mercury was, in 1867, 755.5; in 1865, 754.57; and in 1866, 753.37 millimeters.

In 1867 the difference between the highest and lowest barometrical readings was not more than 13.96 millimetres, and would have been much less if the mercury had not been much depressed by storms in July and September. The hourly variations amounted to very few millimeters.

Daily reading of the lamouter.—The mercuty rises in the early moning till about 9 a.m. it then falls up to 3 or 4 p. m., from then it rises again till 9 p. m., and then again falls till towards day-break. Both the principal atmospheric currents prevalent in Manila exercise a great influence over the mercuty in the bearmeter; the north-influence over the mercuty in the bearmeter; the north-influence over the mercuty in the bearmeter; the north-influence over the mercuty in the bearmeter gheight of 750 millimers, and the southern causes it to fall (to about 750 millimers).

Temperature.—The heat increases from January till the end of May, and then decreases till December.

Average yearly temperature, 27.9° C. The highest temperature ever recorded (on the 15th of April at 3 p. m.) was 37.7° C.; the lowest (on the 14th of December and on the 30th of January at 6 a. m.), 19.4° C. Difference. 18.3° C 5

Thermometrical variations.-The differences between the highest and lowest readings of the thermometer were, in January, 13.9°; in February, 14.2°; in March, 15°; in April, 14.6°; in May, 11.1°; in June, 9.9°; in July, 9°; in August, 9°; in September, 10°; in October, 11.9°; in November, 11.8°; and in December, 11.7°,

Coolest months.-November, December and January, with northerly winds

Hollest months,-April and May. Their high tempe-

rature is caused by the change of monsoon from the northeast to the south-west. The state of the temperature is most normal from June to September; the variations are least marked during this period owing to the uninterrupted rainfall and the clouded atmosphere

Daily variations of the thermometer.-The coolest portion of the day is from 6 to 7 a. m.; the heat gradually increases, reaches its maximum about 2 or 3 p. m., and then again gradually decreases. During some hours of the night the temperature remains unchanged, but towards morning it falls rapidly.

The direction of the wind is very regular at all seasons Winds of the year, even when local causes make it vary a little. In the course of a twelvemonth the wind goes around the whole compass. In January and February north winds prevail; in March and April they blow from the south-

east; and in May, June, July, August, and September,  $^{\bullet}$  Centificate is changed to Pulsconheit by multiplying by size-fifths and saiding thirty-two,—C.

1

Sunatine and rain. down towards the close of the month in the north-east, in which quarter they remain lockaply fixed during the two following months. The two changes of montoses always take place in April and May, and in October. As a rule, the direction of both monsoons preserves its qualibrains: but in Manila, which is protected towards the north by a high range of hills, the north-east monsoon is often diversed to the south-east wind. The day is given given to the south-east wind. The day is gave greatered force to the south-east wind. The day is gave greatered force to the south-east wind. The day is gave greater force to the south-east wind. The day is gave greater force to the south-east wind. The day is gave greater force to the south-east window days are of gave a convergence, in Gentle Bourney to April during the north-east monsoon with the continuous and heaviest rain falls from June till the end of Cotober. During this period the rain connect down in the process of the process of the continuous and heaviest rain falls from June till the end of Cotober. During this period the rain connect down in the process of the process of the continuous and heaviest rain falls from June till the end of Cotober. During this period the rain connect down in

terrents; in September alone the cainfall amounted to 1.5 meters, nearly as much as falls in Berlin in the course of the whole year, 3,072.8 millimeters of rain fell in the where mosth; but this is rather more than the average. The evaporation only amounted to 2,307.3 millimeters; or ordinary years it is generally about equal to the downfall, taking the early averages, not those of single months. The average daily evaporation was about 6.3 milli-

dorma,

The changes of mossoons are often accompanied with tremendous storms; during one of these, which occurred in September, the velocity of the wind was as much as thirty-seven or histy-eight nectes per second. An official report of the English vice-contail mentions a Upstandiary of the English vice-contail mentions an Upstandiary of the English vice-contail mentions and which wisted the manage at Manila, driving seventeen vessels ashured.

The Philippines are divided into provinces (P), and Parking as districts (D), each of which is administred by an abelian Woose. of the last (A1), 2nd (A2), or 3rd class (A3) (de termin), de areason, de cramin): by a political and military powernor (G), or by a commandant (C). In some provinces an alcalde of the Ard class is appointed as condition to the governor. These divisions are frequently changed.

- The nountaint in estimated approximately at about Payassess.

five millions.

In spite of the long possessions of the Islands by the Lauguste

In spite of the long possessions of the Islands by the Laspass Spaniards their language has scarcely acquired any footing and distent. Here. A great diversity of languages and dialects prevails; amongst them the Bisayan, Tagalog, Ilocano, Bicol, Proposition of the Islands of the Islands by the Laspass of the Islands by the Is

amongst them the Bisayan, Tagalog, Ilocano, Bicol, Pangasinan, and Pampangan are the most important. ISLAND OF LUZON

Renk of						
Olicial	District 8	Nump	Prevailing Dislect	Popula- tion	Pueblos	and their languages i population
G.	P.	Abra	Docene	31,337	16	
AL.	P.	Albay			14	
ât:	E.	Bataso.	Trgolog, Pampangna	44,791	10	
A1.	Б.	Bengust	Tegolog	287,100		
	Ď.	Bontec	Igarot, Bonno, Pengasinan.	8,461		
		Bulacan	Sullia, Ilocano, Igorot Tagelog	7,052	23	
AL.	P.	Садпуте	Ibanog, Itanya, Idayan, Gedden,	210,341		
			Bocceso, Dudnyn, Apayzo, Me-			
	_	l		61,437	16	
A2.	P.	Camarines Norte.				
A2(7)	P.	Camprines Ser		81,017	31	
AJ.	P.	Cavitz Hoses Norte				
AL:	P.	Hocos Neete	Heesno, Tinguian.	131,767	12	
č.	B.	Infants.	Hooses	105,231	18	
-6.	P.	Isobela	Tagaing Ibases, Gedden, Tozzloz	7,813	2	
		Legens	Tagalag, Spanish	29,230	2	
		Lepanno	Igorat, Hocean	121,251	26	
JA1.	P.		Tagslee, Sponish, Chines	323.633	24	
·C.			Togolog	41,232	12	
A2.	P.	Nuevo Beije	Tagalog, Posposinan, Pamoan-			
				81,523	13	
A3.	Р.	Nurvn Viccayo				
A1.	P.					
A1.	P.	Pangesisen			25	
c.	D.	Prest	Prenpangen	6,930		
	Б.	Principe	Togsleg, Hocano, Hospett	3,522	3	
A2.	P.	Seltan. Tayobos.	Gahtan	6,610		
A	Ď.	Tiogan	Tagalag, Bicol.	93,918	17	
· O.	P.	Urion.	Different Igorat dialetts	5,723		
A2.	p.	Zerribedge	Electronic Electronic Atta, Paragen-	85,021	11	
		Louise Land	gas, Togeleg, Pengesinan	72,935	16	

AL THE FORMER PHILIPPINES THRU FOREIGN EYES

ISLANDS BETWEEN LUZON AND MINDANAO

District:	Name.	Prevniting Dielect	Popula- tion.	Pachica.
G s1, P. G s	Antique (Passer). Boloi. Burias Capis (Passer) Celta Itolie (Passer) Leyre. Mashatt, Ticas. Mindone. Negate. Resulten Sarras.	Bisayan Bisayan Bisayan Bisayan Bisayan Bisayan Bisayan Bisayan Cebun, Penayan, Bisayan	88,831 147,227 1,786 296,288 318,715 565,560 170,591 12,457 23,650 844,923 21,519 146,539	13 26 16 44 18 29 10 11
		MINDANAO		

Oallyin

G a3 D.   Daves Bisayee.	1,537	
DISTANT ISLANDS		
G al. P. Botenes Shanke G al. P. Calarities Couve, Aguinita Citemiano G. P. Meriman Chamero, Carolina	17,703 5,910	4

neetiatiitiin 7

The statistics of the above table are taken from a small work, by Sr. [Vicente] Barrantes, the Secretary-Oceana of the Philippairs, but I have arranged them differently to render them more easily intelligible to the eye. Although Sr. Barrantes had the best Ordical materials Although Sr. Barrantes had the best Ordical materials and the statistics of the sources from which he dieve them are tained with the sources from which he dieve them are tained with the statistics of the sources from which he dieve them are tained with the statistics of the sources from the statistics of the sources from the statistics of the statistics of the sources from the statistics of the stati

My first excursion was to the province of Bulacan, on ways, the northern shore of the Bay of Manile. A couple of hours brought the steamer to the bar of Binuanga

(not Bincanga as it is called in Coello's map), and a third to Bulacan, the capital of the province situated on the flat banks of an influent of the Pampanga delta. I was the only European passenger, the others were composed of Tazalogs, medizes, and a few Chinese: the first more particularly were represented by women. who are generally charged with the management of all husiness affairs, for which they are much better fitted than the men. As a consequence, there are usually more women than men seen in the streets, and it appears to be an admitted fact that the female births are more numerous than the male. According, however, to the church-record which I looked through, the reverse was,

at any rate in the castern provinces, formerly the case As the landing-place a number of curromatas were Greenelts. waiting for us,-brightly painted, shallow, two-wheeled boxes, provided with an awning, and harnessed to a

couple of horses, in which strangers with money to spend are quickly driven anywhere they may desire The town of Bulacan contains from 11,000 to 12,000

inhabitants; but a month before my arrival, the whole of it, with the exception of the church and a few stone houses, had been burnt to the ground. All were therefore occupied in building themselves new houses, which, oddly enough, but very practically, were commenced at the roof, like houses in a drawing. Long rows of roofs composed of palm-leaves and bamboos were laid in readiness on the ground, and in the meantime were urad as tanta

Proposer of free.

boune, which will few exceptions are built of humbon and wood, become perfectly prorefled in the hot seamo, dried into so much touchwood by the heat of the sun. Their inhabitants are extremely carriers shout fire, and there are no means whatever of extinguishing it. Hanything catches fire on a windty day, the entire village and the strength of the Common strength of the common strength of the common strength of the bound of Manilas, was burnt down, with the exception of the house of a Swiss friend of mins, which owed its safety to the vigorous use of a private fire-engine, and the intermediation of a small garden full of bananas, whose stems full of aps topopped the progress of the finance.

To Universit by surriage.

I travelled to Calumpit, a distance of three leagues, in the handsome carriage of an hospitable friend. The roads were good, and were continuously shaded by fruittrees, coco and areca palms. The aspect of this fruitful province reminded me of the richest districts of Java: but the purbles here exhibited more comfort than the desas there. The houses were more substantial; numerous roomy constructions of wood, in many cases, even, of stone, denoted in every island the residence of official and local magnates. But while even the poorer Javanese always give their wicker huts a smart appearance. border the roads of their villages with blooming hedges. and display everywhere a sense of neatness and cleanliness, there were here far fewer evidences of toste to be met with. I missed too the alun-alun, that pretty and carefully tended open square, which, shaded by warings trees, is to be met with in every village in Java. And the quantity and variety of the fruit trees, under whose leaves the desas of Iava are almost hidden, were by no means as great in this province, although it is the garden of the Philippines, as in its Dutch prototype.

I reached Calumpit towards evening, just as a proces- Colompi. sion, resplendent with flags and torches, and melodious

with song, was marching round the stately church. whose worthy priest, on the strength of a letter of introduction from Madrid, gave me a most hospitable reception. Calumpit, a prosperous place of 12.250 inhabitants, is situated at the junction of the Quingua and

Pampanga rivers, in an extremely fruitful plain, fertilized by the frequent overflowing of the two streams. About six leagues to the north-west of Calumpit, M. Jones. Mount Arayat, a lofty, isolated, conical hill, lifts its head. Seen from Calumpit, its western slope meets the horizon at an angle of 20°, its eastern at one of 25°; and the profile of its summit has a gentle inclination of from 4° to 5°.

At Calumpit I saw some Chinese catching fish in a peculiar fashion. Across the lower end of the bed of a brook which was nearly dried up, and in which there were only a few rivulets left running, they had fastened a hurdle of bamboo, and thrown up a shallow dam behind it. The water which collected was thrown over the dam with a long-handled winnowing shovel. The shovel was tied to a bamboo frame work ten feet high, the elasticity of which made the work much cosine. As seen as the nool was emptied, the fisherman was easily able Potter Sat. to pick out of the mud a quantity of small fish (Ophiocephalus vagus). These fishes, which are provided with peculiar organisms to facilitate respiration, at any rate, enabling them to remain for some considerable time on dry land, are in the wet sesson so numerous in the

ditches, ponds, and rice-fields, that they can be killed with a stick. When the water sinks they also retire, or according to Professor Semper, hore deeply into the coze at the bottom of the watercourses, where protected by a hard crust of earth from the persecutions of maniring.

fishing seems well adapted to the habits of the fish The circumstances that the dam is only constructed at the lower end of the watercourse, and that it is there that the fish are to be met with in the greatest numbers seem to indicate that they can travel in the coze, and that as the brooks and ditches get dried up, they seek the larger water channels.

Following the Ouingua in its upward and eastward To Historia course as it meandered through a well-cultivated and luxuriantly fertile country, past stone-built churches and chapels which grouped themselves with the surrounding palm-trees and bamboo-bushes into sylvan vignettes Father Llano's four-horsed carriage brought me to the important town of Baliwag, the industry of which is

celebrated beyond the limits of the province. I visited several families and received a friendly recention from all of them. The houses were built of boards and were placed upon piles elevated five feet above the ground. Each consisted of a spacious dwelling apartment which opened on one side into the kitchen, and on the other on to an open space, the azoten; a lofty roof of palm-trees spread itself above the dwelling, the entrance to which was through the azotca. The latter was half covered by the roof I have just mentioned. The floor was composed of slats an inch in width laid half that distance apart. Chairs, tables, benches, a cupboard, a few small ornaments, a mirror, and some lithographs in frames, composed the furniture of the interior. The eleanliness of the house and the arrange-

ment of its contents testified to the existence of order and prosperity. I found the women in almost all the houses occupied in weaving tapis, which have a great reputation in the Manila market. They are narrow, thickly-woven silk

on a dark-brown ground. They are worn above the zarona. Baliwag is also especially famous for its petaca\* Private circumstances

eigar-cases, which surpass all others in delicacy of workmanship. They are not made of straw, but of fine strips of Spanish cane, and particularly from the lower ends of the leaf-stalles of the coloursant which is said to grow only in the province of Nucya Eclia. A bundle of a hundred selected stalks, a counter of Preparation of

feet long, costs about six reals. When these stalks have been solit lengthways into four or five pieces, the inner wood is removed, till nothing but the outer part remains. The thin strips thus obtained are drawn by the hand between a convex block and a knife fixed in a sloping position, and between a couple of steel blades which

It is a task recuticing much nationce and practice. Cody mention In the first operation, as a rule, quite one-half of the

steros are broken, and in the second more than half, so that scarcely twenty per cent of the stalks survive the final process. In very fine matting the proportionate loss is still greater. The plaiting is done on wooden cylinders. A case of average workmanship, which costs two dollars on the spot, can be manufactured in six days' uninterrupted labor. Cigar-cases of exceptionally intri-

nearly meet.

cate workmanship, made to order for a connoisseur. frequently cost upwards of fifty dollars. Following the Quingua from Baliwag up its stream, Polossis above we passed several quarries, where we saw the thickly-

necked strate of volcanic stone which is used as a building material. The banks of the river are thickly studded with prickly hambons from ten to twelve feet high. Tyles (Anahune 277) says that this weed is derived from the Mexicon yeshelf, a rast. The inhebitops of the Dhilyptone cell this posts, and from the Mexican pello-cells, a run Thouse. There polars, a right way.

The water overflows in the rainy season, and floods the plain for a great distance. Hence the many shells of large freshwater mussels which are to be seen lying on the earth which covers the volcanic deposit. The country begins to get hilly in the neighborhood of Tobog, a small place with no church of its own, and dependent for its services upon the priest of the next parish. The gentle slones of the hills are, as in Java, cut into terraces and used for the cultivation of rice. Except at Lucban I have never observed similar suress anywhere else in the . Philippines. Several small sugar-fields, which, however, the people do not as yet understand how to manage properly, show that the rudiments of agricultural prosperity are already in existence. The made are northcovered with awnings, beneath which benches are placed affording repose to the weary traveller. I never saw these out of this province. One might fancy oneself in one of the most fertile and thickly-populated districts

of Java. I passed the night in a convento, as the dwelling of the parish priest is called in the Philippines. It was extremely dirty, and the priest, an Augustinian, was full of proselytish ardor. I had to undergo a long geographical examination about the difference between Prussia and Russia; was asked whether the great city of Nuremberg was the capital of the grand-duchy or of the empire of Russin; learnt that the English were on the point of returning to the bosom of the Catholic Church, and that the "others" would soon follow, and was, in short, in spite of the particular recommendation of Father Llanos, very badly received. Some little thate afterwards I fell into the hands of two young Capuchins, who tried to convert me, but who, with the exception of this little impertinence, treated me capitally. They gave me pålés de foie gras boiled in water, which I quickly recognized by the truffles swimming about in the grease. To punish them for their importunity I refrained from telling my hosts the right way to cook the pates, which I had the pleasure of afterwards eating in the forest as I easily persuaded them to sell me the tins they had left. These are the only two occasions on which I was subjected to this kind of annoyance during my eighteen months' residence in the Philippines. ( vie+ ! lu hose! The traveller who is provided with a passport is

however, by no means obliged to rely upon priestly hospitality, as he needs must do in many isolated parts of Europe. Every village, every hamlet, has its common-house, called casa real or tribunal, in which he can take up his quarters and be supplied with provisions at the market price, a circumstance that I was not acquainted with on the occasion of my first trip. The traveller is therefore in this respect perfectly independent, at least in theory, though in practice he will often scarcely be able to avoid putting up at the conventor in the more isolated parts of the country. In these the priest, perhaps the only white man for miles around, is with difficulty persuaded to miss the opportunity of housing such a rare guest, to whom he is only too anxious to give up the best bedroom in his dwelling, and to offer everything that his kitchen and cellar can afford. Everything is placed before the guest in such a spirit of sincere and undisguised friendliness, that he feels no obligation, but on the contrary easily persuades himself that he is doing his host a favor by prolonging his stay. Upon one occasion, when I had determined. in spite of an invitation from the padre, to occupy the casa real, just as I was beginning to instal myself, the priest appeared upon the scene with the municipal officials and a band of music which was in the neighborhood pending the preparations for a religious festival.

62 THE FORMER PHILIPPINES THRU FOREIGN EYES

He made them lift me up, chair and all, and with musi-

Kupang Iron-Joon and general rejoicing carried me off to his own house.

On the following day I paid a visit to Kupang, an iron-foundry lying to the N.N.E of Angat, escorted by two armed men, whose services I was pressed to

line.

accept, as the district had a bad reputation for robberies. After travelling three or four miles in a northerly direction, we crossed the Banauon, at that time a mere brook meandering through shingle, but in the rainy season an impetuous stream more than a hundred feet broad; and in a couple of hours we reached the ironworks, an immense shed lying in the middle of the forest. with a counte of wings at each end, in which the manager an Englishman, who had been wrecked some years before in Samar, lived with his wife, a pretty mediza, If I laid down my handkerchief, my nencil, or any other object, the wife immediately locked them up to protect them from the kleptomania of her servants. These poor people, whose enterprise was not a very successful one, had to lead a wretched life. Two years before my visit a band of twenty-seven robbers burst into the place. sacked the house, and threw its mistress, who was alone with her maid at the time, out of the window. She fortunately alighted without receiving any serious hurt. but the maid, whom terror caused to jump out of the window also, died of the injuries she received. The robbers, who turned out to be miners and residents in Angat, were easily caught, and, when I was there, had already spent a couple of years in prison awaiting their triol

1 ....

trial.

I met a negrito family here who had friendly relations with the people in the iron-works, and were in the habitof exchanging the produce of the forest with them for provisions. The father of this family accompanied me on a hunting excedition He was armed with a low

and a couple of strows. The arrows had spear-shaped iron points a couple of inches long; one of them had been dinned into arrow-poison, a mixture that looked like black tar. The women had guitars (tohuna) similar to those used by the Mintres in the Malay peninsula. They were made of pieces of bamboo a foot long, to which strings of split chair-case were fortened \*

Unon my return, to avoid spending the night at the Unvitore wretched convento where I had left my servant with my luggage, I took the advice of my friends at the ironworks and started late, in order to arrive at the priest's after ten o'clock at night; for I knew that the nadre shut up his house at ten, and that I could therefore sleep, without offending him, beneath the roof of a wealthy mestizo, an acquaintance of theirs. About half-past ten I reached the latter's house, and sat down to table with the merry women of the family, who were just having their supper. Suddenly my friend the parson made his annearance from an inner room, where with a couple of Augustinian friers, he had been playing cards with the master of the house. He immediately began to compliment me upon my good fortune, "for had you been

but one minute later," said he, "you certainly wouldn't VII

My second trip took me up the Pasig to the great Lagoon The Japan of of Bay. I left Manila at night in a banca, a boat hollowed out of a tree-trunk, with a vaulted roof made of bomboo and so low that it was almost impossible to sit upright under it, which posture, indeed, the banca-

have got into the convento."

builder appeared to have neglected to consider. A 

hambon hurdle placed at the bottom of the boat no. tects the traveller from the water and serves him as a couch. Jurien de la Gravière' compares the banca to a cigar-box, in which the traveller is so tightly packed that he would have little chance of saving his life if it happened to upset. The crew was composed of four rowers and a helmsman; their daily pay was five reals aniece in all nearly seven pesos, high wages for such lazy fellows in comparison with the price of provisions, for the rice that a hard-working man ate in a day seldom cost more than seven centavos (in the provinces often scarcely six), and the rest of his food (fish and vegetables), only one centavo. We passed several villages and tiendas on the banks in which food was exposed for sale. My crew, after trying to interrupt the journey under all sorts of pretences, left the boat as we came to a village, saving that they were going to fetch some sails; but they forgot to return. At last, with the assistance of the night watchman, I succeeded in hauling them out of some of their friends' houses, where they had concealed themselves. After running aground several times upon the sandbanks.

TAY Pary.

The Paig forms a natural canal, about six leagues long, between the Bay of Manila and the Lagoon of Bay, a fresh water lake, thirty-five leagues for ference, that washer the shores of three fertile provinces, Manila, Laguna and Cavie. Formerly large vessels full of cargo useful to be able to sall right up to the beefers of the lake; now they are prevented by sandbanks. Even flat-bottomed boats frequently run aground on the

we entered the land and hill-locked Lagoon of Bay, and reached Jalajala early in the morning.

<sup>.</sup> Popular or Clay, vol. 11., mary 15

Napindan and Tanjia banks. Were the banks removed, and the stone bridge joining Manils to Binnohn opshace by a swing bridge, or a canal make round it, the coasting vessels would be able to ship the produce of the largoon provinces at the very foot of the fields in the largoon provinces at the very foot additional solar than the sale and the

Jalajala, an estate which occupies the eastern of the discourtwo peninsulas which run southward into the lake is one of the first places visited by atrangers. It owes this preference to its beautiful position and pearness to Manila, and to the fantastic description of it by a former owner. De la Gironnière. The soil of the peninsula is volcanic; its range of hills is very rugged, and the watercourses bring down annually a quantity of soil from the mountains, which increases the deposits at their base, The shore-line, overgrown with grass and prickly sensitive-plants quite eight feet high, makes capital pasture for carabaos. Behind it broad fields of rice and sugar extend themselves up to the base of the hills. Towards the north the estate is bounded by the thickly-wooded Sembrano, the highest mountain in the peninsula; on the remaining sides it is surrounded with water. With

<sup>•</sup> According to the report of an engineer, the sand banks are caused by the river Sim Matter, which text is made and tright angles shortly ofter the titter leaves the Language which text report page in the transport page in relating to the property page in the page in the property page in the property page in the page in

the exception of the flat shore, the whole place is him. and overgrown with grass and clumps of trees, capital pasture for its numerous herds-a thousand carabaos. one thousand five hundred to two thousand bullocks and from six to seven hundred nearly wild horses. As we were descending one of the hills, we were suddenly surrounded by half-a-dozen armed men, who took us for cattle-thieves, but who, to their disappointment. were obliged to forego their expected chance of a reward.

Beyond Jalajala, on the south coast of the Lazoon of Bay, lies the hamlet of Los Baños, so called from a hot spring at the foot of the Makiling volcano. Even prior to the arrival of the Spaniards, the natives used its waters as a remedy,\* but they are now very little natronized. The shore of the lake is at this point, and indeed all round its circumference, so flat that it is impossible to land with dry feet from the shallowest canoe. It is quite covered with sand mussels. Northwest of Los Baños there lies a small volcanic lake fringed with thick woods, called Dagatan (the enchanted lagoon of travellers), to distinguish it from Dagat, as the Tagals call the great Lagoon of Bay. I saw nothing of the crocodiles which are supposed to infest it, but we flushed several flocks of wild fowl, disturbed by our invasion of their solitude. From Los Baños I had intended to go to Lunnug Puti (white earth), where, judging from the samples shown me, there is a deposit of fine white silicious earth, which is purified in Manila and used as paint. I did not reach the place, as the guide whom I had with difficulty obtained, pretended, after a couple of miles, to be dead beat. From the inquiries

<sup>.</sup> They take haths for their maladies, and have her springs for this purp

They take baths for their malodies, and have not speings for this purpose particularly along the shore of the king's lake (Estang du Roy, instead of Estang e Buy by a printer's mintake apparently, which is in the Island of Manile.

I made, however, I apprehend that it is a kind of sol-

of the Mobilion "

Intara. Several denosits of it appear to exist at the foot

On my return I naid a visit to the Island of Talim, Islands

Although the south-west monsoons generally occur #. de is later in Jalajala than in Manila, it was already raining so hard that I decided to go to Calauan, on the southern shore of the lake, which is protected by Mount Makiling, and does not experience the effect of the rainy monsoons till later in the season. I met M. de la Gironnière in Calauan, the "gentilhomme Breton" who is so well known for telling the most terrible adventures. He had lately returned from Europe to establish a large sugar manufactory. His enterprise, however, was a failure. The house of the lively old gentleman, whose eccentricity had led him to adopt the dress and the frural habits of the natives, was neither clean or well kept, although he had a couple of friends to assist him in the business, a Scotchman, and a young Frenchman who had lived in the most refined Parisian society. . "One can somethy walk thirty prece between Moure Mobiling and a place offset libera, which few to the end of loss fashes, without meeting reveral fails of the control of the temperature of temperature of the temperature of the temperature of temperature of the temperature of from it. The sail from which this vapor issues is an extraordly white careb; it is secretized shown up to the height of a year or a year set as all, and meeting the lower temperature of the encomplane falls to the ground in small pieces."— School approach. 1983.

which, with the exception of a clearing occupied by a few miserable huts, is uninhabited and thickly overgrown with forest and undergrowth. In the center of the Island is the Susong-Dalaga (maiden's bosom), a

shore, on a bare rock, I found four eggs containing fully

developed young crocodiles. When I broke the shells the little reptiles made off

dolerite hill with a beautifully formed crest. Upon the

THE TOWNER PRITIPOLES THE POLICES EVEN There were several small lakes and a few empty

volcanic basins on the estate. To the south-west, not very far from the house, and to the left of the road lead. ing to San Pablo, lies the Llanura de Imue, a valley of dolerite more than a hundred feet deep. Large blocks of basalt enable one to climb down into the valley, the bottom of which is covered with dense growths. The center of the basin is occupied by a neglected coffee plantation laid out by a former proprietor. The density of the vegetation prevented my taking more precise observations. There is another shallower volcanie

crater to the north of it. Its soil was marshy and covered with cane and grass, but even in the rainy season it does not collect sufficient water to turn it into a lake It might, therefore, be easily drained and cultivated, To the south-west of this basin, and to the right of the road to San Pablo, lies the Tigui-mere. From a plain of whitish-grey soil, covered with concentric shells as large as a nut, rises a circular embankment with gentlysloping sides, intersected only by a small cleft which serves as an entrance, and which shows, on its edges denuded of vegetation, the loose rapidly of which the embankment is formed. The sides of this natural amphitheatre tower more than a hundred feet above its flat base. A path runs east and west right through the center. The northern half is studded with cocopalm trees and cultivated plants; the southern portion is full of water nearly covered with green weeds and slime.

state of preservation did not allow me to distinguish

The ground consists of black rapilli,

From the Tigui-mere I returned to the hacienda along a bank formed of volcanic lava two feet in thickness and covered with indistinct impressions of leaves. Their

Inw.

their species, but they certainly belonged to some tropical genus, and are, according to Professor A. Braun, of the

same kind as those now growing there. There are two more small lakes half a league to the

south-east. The road leading to them is composed of volcanic remains which cover the soil, and large blocks of lava lie in the bed of the stream.

The first of the two, the Maycap Lake, is entirely Mayou Lake. embanked with the exception of a small opening fitted with sluices to supply water to a canal; and from its northern side, which alone admits of an open view, the southern peak of San Cristobal may be seen, about 73° to the north-east. Its banks, which are about eighty feet high, rise with a gentle slope in a westerly direction.

till they join Mount Maiba, a hill about 500 feet high, The soil, like that of the embankments of the other volcanic lakes, consists of rapilli and lava, and is thickly wooded Close by is another lake. Palakpakan, of nearly the late same circumference, and formed in a similar manner

(of black sand and rapilli). Its banks are from thirty to one hundred feet high. From its north-western edge San Cristobal lifts its head 70° to the northeast. Its waters are easily reached, and are much frequented by

Sehermen About nine o'clock, a. m., I rode from Calauan to Pale trends Pila, and thence in a northeasterly direction to Santa Cruz, over even, broad, and well-kept roads, through a palm-grove a mile long and a mile and a half broad.

which extends down to the very edge of the lagoons. The products of these palm trees generally are not used for the production of oil but for the manufacture of brandy. Their fruit is not allowed to come to maturity: but the buds are slit open, and the sweet sap is collected as it drins from them. It is then allowed to ferment. and subjected to distillation.\* As the sap is collected twice a day, and as the blossoms, situated at the ton of the tree, are forty or fifty feet above the ground bamboos are fastened horizontally, one above the other. from one tree to another, to facilitate the necessary ascent and descent. The sap collector stands on the lower cross-niece while he holds on to the upper . The sale of palm-brandy was at the time of my visit

the monopoly of the government, which retailed it in the Estanco (government sale rooms) with cigars, stamp, ed paper, and religious indulgences. The manufacture was carried on by private individuals; but the whole of the brandy was of necessity disposed of to the administration, which, however, paid such a high price for it that the contractors made large profits

I afterwards met a Spaniard in Camarines who according to his own account, must have made considerable and easy gains from these contracts. He had bought palm-trees at an average price of five reals apiece (they usually cost more, though they can be sometimes purchased for two reals). Thirty-five palms will furnish daily at least thirty-six quarts of tubu (sugar-containing san), from which, after fermentation and distillation, six quarts of brandy of the prescribed strength can be manufactured. One man is sufficient to attend to them, and receives for his trouble half the proceeds. The

<sup>.</sup> Birefetta wave that the resting, in order to obtain volve-gine, out the ton of the tree through to the outh, and then couch the sap as it corre out of the inciof list free through a to be pile, and a virtue out in the same of cores and of the leaf-ing. Aspect dies to Regustal, Aspect from a first free prime tay, a methyl that the property of the property of the property of the property of the consideration in ordinary of the prime tay, a methyl that thermostic determine in ordinary of the prime tay, a methyl that thermostic determine in ordinary of the prime tay, and the prime tay, a methyl that thermostic determine in ordinary of the prime tay of the prime tay, and the prime tay of the temporary of the prime tay of

The proceeds of this menopoly (wines and liquors) Was and liquors were rated at \$1.622,810 in the colonial budget for 1861; a silvebut its collection was so difficult, and so disproportionately expensive, that it nearly swallowed up the whole profit. It caused espionage, robberies of all sorts, embezzlement, and bribery on a large scale. The retail of the brandy by officials, who are paid by a percentage on the consumption, did a good deal to injure the popular respect for the government. Moreover, the imposition of this improper tax on the most important industry of the country not only crippled the free trade in palme

but also the manufacture of raw augar; for the government, to favor their own monopoly, had forbidden the sugar manufacturers to make rum from their molasses, which became in consequence so valueless that in Manila they gave it to their horses. The complaints of the manufacturers at last stirred up the administration to allow the manufacture of rum; but the palm-brandy monopoly remained intact. The Filipines new drank nothing but rum, so that at last, in self-defence, the government entirely abandoned the monopoly (January, 1864). Since that, the rum manufacturers pay taxes according to the amount of their sale, but not upon the amount of their raw produce. In order to cover the deficit occasioned by the abandonment of the brandy monopoly, the government has made a small increase in the poll-tax. The practice of drinking brandy has THE FORMER PHILIPPINES THEF PORRIGN EVES

naturally much increased; it is, however, a very old habit.\* With this exception, the measure has had the most favorable consequences. Santa Cruz is a lively, prospectous place (in 1866 in

contained 11.385 inhabitants), through the center of which runs a river. As the day on which we possed through it was Sunday, the stream was full of bathers amonast them several women, their luxuriant base covered with broad-brimmed hats to shade them from the sun. From the ford the road takes a sharp turn and inclines first to the east and then to the south-east, till it reaches Magdalena, between which and Majajjaj the country becomes hilly. Just outside the latter, a viaduct takes the road across a deep ravine full of magnificent ferns, which remind the traveller of the height-more than 600 feet-above the sea level to which he has attained. The spacious convento at Majaijai, built by the Jesuits, is celebrated for its splendid situation. The Lagoon of Bay is seen to extend far to the north-east; in the distance the Peninsula of Jalajala and the Island of Talim, from which rises the Susong-Dalaga volcano. terminate the visto. From the convento to the lake stretches an endless grove of coco-trees, while towards the south the slope of the distant high ground grows suddenly steeper, and forms an abruptly precipitous conical hill, intersected by deep ravines. This is the Banajao or Majaijai volcano, and beside it Mount San Cristobal rears its bell-shaped summit.

Seenery al Lucture M 1008. As everybody was occupied with the preparations for an ensuing religious festival. I betook myself, through Luchan on the eastern shore, to Mauban, situated amidst deep ravines and masses of law at the foot of Meant

Pigofetta mentions that the natives were in the habit of making oil, viorges, wine, and mill, from the coco pains, and that they deam's agrant deal of the wine. Their kines, he saws, frequently industrial differenties a their language.

Majajiai. The vegetation was of indescribable beauty, and the miserable road was enlivened with cheerful knots of pedestrians hastening to the festival.

I reached Lucban in three hours; it is a prosperous before of 13,000 inhabitants, to the north-east of Majajiai.

A year after my visit it burnt to the ground. The americultural produce of the district is not very important.

owing to the mountainous nature of the ymportant, or considerable industrial activity provides the providence of the barry plant rece (owight a.g., manufacture produces matter and carry on a profitable trade at Manbau with the placed remines of North Camarinas. The entire breath of the road is covered with comment, and adong its center flows, in an open channel, a sparking and the providence of the provid

The road from Luchan to Mauban, which is situated Museon the bay of Luchan on opposite to the Stand of Ababat, should be suffered to the Stand of Ababat, should be suffered to the Stand of Ababat, should be suffered to the Standard Stand

Three leagues from Luchan the river flows under a Navarion, rock supported on prismatically shaped pillars, and then runs through a bed of round publics, composed of volcamic stone, and white lime, as hard as marable, in which impressions of shell-fish and coral can be traced. Further up the river the volcamic rubble disappears, and the "A number of the Indiana" Navarion Navarion (Streenberg 112) or navarion (Streenber

Hespitality of tribanal.

spectators; I then laid myself down to sleep on the bench beside the table, to which a second set of diners

pot, which I ate in the midst of a little knot of wondering

side

with fruit and pastry stood against the walls and in the middle of the principal room a dining-table was laid out for forty persons. A European who travels without a servant-mine had run away with some wages I had rashly paid him in advance-is put down as a beggar, and I was overwhelmed with impertinent questions on the subject, which, however, I left unanswered. As I hadn't had the supper I stood considerably in need of, I took the liberty of taking a few savory morsels from the meat-

were already sitting down. When I awoke on the following morning there were already so many people stirring that I had no opportunity of performing my

hundred feet above the level of the sea. About a league beyond Mauban, as it was getting dusk, we crossed the river, then tolerably broad, on a wretched leaking bamboo raft, which sank at least six

cemented together with calcareous spar. These strate alternate with banks of clay and coarse-grained soil which contain scanty and badly preserved imprints of leaves and mussel-fish. Amongst them, however, I observed a flattened but still recognizable specimen of the fossil melania. The river-bed must be quite five

inches beneath the water under the weight of our horses and ran helplessly aground in the mud on the opposite

The tribunal or common-house was crowded with neonle who had come to attend the festival which was to take place on the following day. The column wore. in token of their dimity, a short incket above their shirts. A quantity of brightly decorated tables laden toilet. I therefore betook myself in my dirty travelling dress to the residence of a Spaniard who had settled in the pueblo, and who received me in the most hospitable manner as soon as the description in my passport satisfied him that I was worthy of a confidence not inspired by my appearance.

My friendly host carried on no trifling business. Two Trates English ships were at that moment in the harbor, which melon. he was about to send to China laden with molane, a species of wood akin to teak.

On my return I visited the fine waterfall of Butucan, assess between Mauhan and Luchan, a little apart from the woterfell.

high road. A powerful stream flows between two high banks of rocky soil thickly covered with vegetation. and, leaping from a ledge of volcanic rock auddenty plunges into a ravine, said to be three hundred and sixty feet in depth, along the bottom of which it is hurried away. The channel, however, is so narrow, and the veretation so dense, that an observer looking at it from shove can not follow its course. This waterfall has a great similarity to that which falls from the Semeru in Inva. Here, as there, a volcanic stream flowing over vast rocky deposits forms a horizontal watercourse, which in its turn is overshadowed with immense masses of rock. The water easily forces its way between these till it reaches the solid lava, when it leaves its high, narrow, and thickly-wooded banks, and plunges into the deep chasm it has itself worn away. The pouring rain unfortunately prevented me from sketching this fine fall. It was raining when I reached the convento of Maintini and it was still raining when I left it three days later nor was there any hope of improvement in the weather for another month to come. "The wet season lasts for eight or nine months in Mainisi, and during the whole period scarcely a day passes without the rain folling in torrents."—Estado acouranh.

To second the volcano was under such circumstances

impracticable. According to some notes written by the Maisiisi priest, an ascent and survey of Moone Ranaian was made on the 22nd of April 1838, by Senors Rolling and Montero, two able Spanish naval officers specially charged with the revision of the marine chargof the archipelago. From its summit they took observasions of Manila eathedral, of Mayon, another volcann in Albay, and of the Island of Polilio. They estimated the stringe of Banajao to be seven thousand and twenty Spanish feet, and the depth of its crater to be seven hundred. The crater formerly contained a lake, but the last eruption made a chasm in its southern side through which the water flowed away."

I reached Calauan in the pouring rain, wading through the soft spongy clay upon wretched, half-starved ponies. and found I must put off my water journey to Manila till the following day, as there was no boat on the lake at this point. The next morning there were no horses to be found; and it was not till the afternoon that I procured a cart and a couple of carabaos to take me to Santa Cruz, whence in the evening the market-vessel started for Manila. One carabao was harnessed in front; the other was fastened behind the cart in order that I might have a change of animals when the first became tired. Carabao number one wouldn't draw, and number two acted as a drag-rather useless apparatus on a level

half-way down the bright of the mountain.

<sup>\*</sup> Red and Pickering, of the United States explicing expedition, determined the bright to be 6,500 Emchant feet 1,500 Scenian . not an unantificative result, the bright to be a NO English feet (1,500 Epenian), not an unsatisfactory result tensidering the imperiest movement they possessed for making a proper measure ment. In the Manila Lucase recompute for 1886, the bright is given, without ments. In the matrix, because recording to 1880, the origin is given, moreover, and printerings as to the source where the central is derived, as 7.00 feet. The same surface; as yet, and the surface is extract size of the central is desired, as 7.00 feet. The same surface is extract size of the surface is the surface at the surface; and the surface is the surface with the surface of the surface is the surface in the surface is the surface in the surface is the surface in the surface of the surface is the surface of the surface of the surface of the surface of the surface is the surface of the surface is the surface of the surfac traces of any sea can be there ere so me us the vener or bernays, and its interior is shaped like an egg-tard; the deplet on the northern safe, and its interior is shaped like an egg-tard; the depth of the grister apparently extends

road-so I changed them. As soon as number two felt the load it laid down. A few blows persuaded it to pick itself up, when it deliberately walked to the peacest need and dropped into it. It was with the greatest trouble that we unharnessed the cart and pushed it back on to the road, while our two considerate beasts took a mud bath. At last we reloaded the baggage, the carabaos were reharmessed in the original positions, and the driver, leaning his whole weight upon the nose-rone of the leading beast pulled with might and main. To my ereat delight the animal condescended to slowly advance with the cart and its contents. At Pila I managed to Pole get a better team, with which late in the evening, in the midst of a pouring rain. I reached a little hamlet opposite Santa Cruz. The market-vessel had left; our attempts to get a boat to take us across to the village only led to barefaced attempts at extortion, so I entered one of the largest of the hamlet's houses, which was occupied by a widow and her daughter. After some delay my request for a night's lodging was granted. I sent for some oil, to give one a little light, and something to eat. The women brought in some of their relations, who helped to prepare the food and stopped in the house to protect its owners. The next morning I crossed the river, teeming with invous bathers, to Santa Cruz, and hired a host there to take me across the lake to Pasig, and from thence to Manila. A contrary wind, however, forced us to land on the promontory of Jalaiala, and there wait for the calm that accompanies the dawn. Betwixt the extreme southern point of the land and the houses I Ecotopuste saw in several places, banks of mussels projecting at least fifteen feet above the surface of the water, similar to those which are so frequently found on the sea-coast; -a proof that earthquakes have taken place in this neighborhood.

## VII

To Alley to ectorer. Towards the end of August 1 started from Mania for Ahaba in a school with his drought a cargo of himp and was returning in ballast. It was fine when we set sail; but on the following day the signs of a cerning stome strength of the start o

Maritales.

The weather obliged me to limit my excursions to the immediate neighborhood of Mariveles. Unfortunately it was not till the close of our stay that I learnt that there was a colony of negritor in the mountains; and it was not till just before my departure that I got a chance of seeing and sketching a couple of them, male and female. The inhabitants of Mariyeles have not a very good reputation. The place is only visited by ships which run in there in bad weather, when their idle crews spend the time in drinking and cambling. Some of the young girls were of striking beauty and of quite a light color; often being in reality of mixed race, though they passed as of pure Tagal blood. This is a circumstance I have observed in many scaports, and in the neighborhood of Manila; but, in the districts which are almost entirely unvisited by the Spaniards, the notives are much darker and of purer race.

Starve-čes

The number of ships which were seeking protection from the weather in this port amounted to ten, of which three were schooners. Every morning regularly a small position's used to attempt to set sail; but it searchy got a look at the open see before it extremed, when it was sailuted with the jerra and laughter of the others. It was hanger that made theme to bold. The crew, who was hanger that made theme to bold. The crew, who have been come of that own produce to Mannia, had been considered to the control of soon reaching their home, which they could have done with any favorable wind. Such cases frequently occur. A few natures under to their own fields, which they set of the sails when the control of the control

The straits between the Islands resemble beautiful rassess, wide rivers with charming spots upon the banks inhabited by small colonier; and the sailors generally find the weather gets squally towards evening, and anchor till the morning breaks.

The hospitable coast supplies them with fish, craits, simulatively managed, and frequently upprotected economic. If it is inlushited, so much the better. Filipino longitality is ample, and much more comprehensive than that practical in Europe. The crews are accommodated in Europe. The crews are accommodated in a comparison of the hut fall aideep together. Once, as I was smilling into the boy of Marlina dark a five dayly crusies,

as we had with a cargo of coconut oil for Manila, and which had spent six months upon its trip. It is by no mteans uncommon for a crew which makes a long stay

in the capital to squander the whole proceeds of their

Cardina Luna.

At last one evening when the storm had quite passed away, we sailed out of Mariveles. A small, volcanie, nittar-shaped rock, bearing a striking resemblance to the Island of the Cyclons, off the coast of Sicily, lies in front of the barbor-like there, a sharp pyramid and a small, flat island. We sailed along the coast of Cavite till we reached Point Santiago, the southwestern extremity of Luzon, and then turned to the cast, through the fine straits that lie between Luzon to the north and the Bisayan islands to the south. As the sun rose, a beautiful spectacle presented itself. To the north was the peak of the Taal volcano, towering above the flat plains of Batangas; and to the south the thickly-wooded, but rock-bound coast of Mindoro, the iron line of which was broken by the harbor of Porto Galera, protected from the fury of the waves by a small islet lying immediately before it. The waters around us were thickly studded with vessels which had taken refuge from the storm in the Bisavan ports, and were now returning to Manila.

Impetance straite. the Blagyan ports, and were now returning to Manila. These straits, which extend from the south-east to the northwest, are the great commercial highway of the Aerelipeita, on all runnin suviginite during the whole Aerelipeita, and runnin suviginite during the whole which by the sheltering pennisuals of Lunes, which street is strained to the strained of Lunes, which street is strained to the strained of Lunes, which extends in a parallel direction; while the Bisayon islands shield them from the balants that bole from the south-west. The Islands of Mindaro, Panay, Negros, Cebu and Belol. Islands of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro, Panay, Negros, Cebu and Belol. The strained of Mindaro and Mi

Palawan, on the east by Mindanao, and on the south by the Sulu group. The eastern waters of the straits wash the coasts of Samar and Leyte, and penetrate through three small channels only to the great ocean; the narrow straits of San Bernardino, of San Juanico. and of Surigao. Several considerable, and innumerable smaller islets, lie within the area of these cursorily explained outlines

A couple of bays on the south coast of Batangas offer a Autoque cont. road-stead, though but little real protection, to passing vessels, which in stormy weather make for Porto Galera,

in the Island of Mindoro, which lies directly opposite, A river, a league and a half in length, joins Taal, the principal port of the province, to the great inland sea of Taal, or Bombon. This stream was formerly navigable; but it has now become so sanded up that it is passable only at flood tides, and then only by very small Vennela The province of Batangas supplies Manila with its Sources

best cattle, and exports sugar and coffee. A hilly range bounds the horizon on the Luzon side: the striking outlines of which enable one to conjecture its volcanic origin. Most of the smaller islands to the

south appear to consist of superimposed mountainous ranges, terminating seaward in precipitous cliffs. The lofty and symmetrical peak of Mount Mayon is the highest point in the panoramic landscape. Towards evening we sighted Mount Bulusan, in the south-eastern extremity of Luzon; and presently we turned northwards. and sailed up the Straits of San Bernarding, which separate Luzon from Samar.

The Bulusan volcano, "which appears to have been the bear for a long time extinct, but which again began to crunt in 1852." is surprisingly like Vesuvius in outline. It

22 THE FORMER PHILIPPINES THRU POREICX EVEE
has, like its prototype, a couple of peaks. The western
one, a bell-shaped summit, is the eruption cone. The
eastern apaxis a tall, rugged mound, probably the remains
of a huge circular crater. As in Vesuvius, the present
erater is in the center of the extinct one. The intervals

between them are considerably larger and more uneven than the Airio def Cavallo of the Italian volcano.

The current is so powerful in the Straits of San Bernardino that we were obliged to anchor twice to avoid being carried back again. To our left we had continually

of the same name neatling at the foot of its eastern slope of the same name neatling at the foot of the cast Enruggling with difficulty against the force of the current, we use-creded, with the assistence of light, and fickels winds, in reaching Leganyi, the port of Albay, on the following Leganyi, the port of Albay, on the following reading. Our shipper, a Spanisch, had determined to accomplish the trip as rapidly as possible.

On my retarn wrouges, however, I feel into the hands of a native captain; and, as my cruise under his anaptice presented many precultifities. I may once a few parts.

in view the magnificent Bulusan volcano, with a hamlet

sage relating to it from my diary. The adopter intended to have taken a stock of vegetables for my use, but he had forgattes them. He therefore landed on a small island, and presently much list resperances with a lung polm cabbage, which, in the absence of its owner, he had pricked from a true he cut down for the parayses.

On mother occusion the crew made a desent the contract of the contract o

Tunnico, never more than a mile, and often only eight

hundred feet broad, are about twenty miles in length; yet it often takes a vessel a week to sail up them; for contrary winds and an adverse current force it to anchor frequently and to lie to for whole nights in the narrower places. Towards evening our captain thought that the sky

appeared very threatening, so he made for the bay of Avidential Navo, of Mashate. There he anchored, and a part of ways. the crew went on shore. The next day was a Sunday: the captain thought "the sky still appeared very threatening;" and besides he wanted to make some purchases. So we anchored again off Magdalena, where we passed the night. On Monday a favorable wind took us, at a quicker rate, past Marinduque and the rocky islet of Elefante, which lies in front of it. Elefante appears to be an extinct volcano; it looks somewhat like the Iriga, but is not so lofty. It is covered with capital pasture, and its ravines are dotted with clumps of trees, Nearly a thousand head of half-wild cattle were grazing on it. They cost four dollars a-piece; and their freight to Manila is as much more, where they sell for sixtren dollars. They are badly tended, and many are stolen by the passing sailors. My friend the captain was full of regret that the favorable wind gave him no opportunity of landing; perhaps I was the real obstacle. "They were splendid beasts! How easy it would be to put . a couple on board! They could scarcely be said to have any real owners; the nominal proprietors were quite unaware how many they possessed, and the herd was continually multiplying without any addition from its masters. A man lands with a little money in his pecket. If he meets a herdsman, he gives him a dollar, and the poor creature thinks himself a lucky fellow. If not, so much the better. He can do the business bimself: a barrel of shot or a sling suffices to settle the

matter."

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As we sailed along we saw coming towards us another vessel, the Little, which underly executed a very extraordinary tack; and in a minute or two its crew sett a load shout of loy, having uncededed in stealing this how which the fullermen of Marindaque had sunk in the sex. They had lowered a hook, and been close enough to grapple the rope of the floating busy. Our capitals was bealed hismelf which envy of their prize.

.....

Legaspi is the principal port of the province of Albay. Its road-stead, however, is very unsafe, and, being exposed to the north-easterly storms, is perfectly useless during the winter. The north-east wind is the prevailing one on this coast: the south-west breeze only blows in Tune and July. The heaviest storms occur between October and January. They generally set in with a gentle westerly wind, accompanied with rain. The gale presently yeers round to the north or the south, and attains the height of its fury when it reaches the north-east or the south-east. After the storm a calm generally reigns, succeeded by the usual wind of the prevailing monsoon. The lightly-built clastic houses of the country are capitally suited to withstand these storms; but roofs and defective houses are frequently carried away. The traffic between Manila and Legaspi is at its height between January and October; but during the autumn months all communication by water ceases. The letterpost, which arrives pretty regularly every week, is then the only link between the two places. At this season beavy packages can be sent only by a circuitous and expensive route along the south coast, and thence by water to Manila. Much more favorably situated for pavigation is the port of Sorsogon, the mouth of which opens to the west, and is protected by the Island of Bagalao,

which lies in front of it. Besides its security as a harbor, it has the advantage of a moid and unbroken communica-

tion with the capital of the archipelago, while vessels sailing from Legaspi, even at the most favorable time of the year, are obliged to go round the eastern peninsula of Luzon, and meet the principal current of the Straits of San Bernardino, frequently a very difficult undertaking; and, moreover, small vessels obliged to anchor there are in great danger of being captured by pirates. The country about Sorsogon, however, is not so fertile as the neighborhood of Legasoi.

I took letters of introduction with me to both the A worth Spanish authorities of the province; who received me in the most amiable way, and were of the greatest use to me during the whole of my stay in the vicinity. I had also the good fortune to fall in with a model alcalde. a man of good family and of most charming manners: in short, a genuine caballere. To show the popular annreciation of the honesty of his character, it was said of him in Samar that he had entered the province with nothing but a bundle of papers, and had left it as lightly equipped.

My Spanish friends enabled me to rent a house in Dange. Daraga," a well-to-do town of twenty thousand inhabitants at the foot of the Mayon, a league and a half from Legasoj. The summit of this volcano was considered inaccessible until two young Scotchmen, Paton and

Officially called Cagasses. The old town of Cagasses, which was brift they up the hill and was destroyed by the graption of 1814, was rebuilt on the spit where forearty wood a wastl harming of the phase of Derica.

Stewart by name, demonstrated the contrary.\* Since

Locat of

no Europeans. I set out on Sentember 25th, and passed the night by the advice of Señor Muños, in a but one thousand feet above the level of the sea, in order to begin the ascent the next morning with unimpaired vigor. But a number of idless who insisted on following me and who kept up a tremendous noise all night, frustrated the purpose of this friendly advice; and I started about five in the morning but little refreshed. The fiery glow I had noticed about the crater disappeared with the dawn. The first few hundred feet of the ascent were covered with a tall grass quite six feet high; and then came a slope of a thousand feet or so of short grass succeeded by a quantity of moss: but even this soon disappeared, and the whole of the upper part of the mountain proved entirely barren. We reached the summit about one o'clock. It was covered with fissures which gave out sulphurous gases and steam in such profusion that we were obliged to stop our mouths and nostrils with our handkerchiefs to prevent ourselves from being suffocated. We came to a halt at the edge of a broad and deep chases, from which issued a particularly dense vapor. Apparently we were on the brink of a crater, but the thick fumes of the disserceable vapor made it impossible for us to guess

<sup>1</sup> hered has Me, Franch, then the reductions had the terre recognition of the magnetization in College. "That is similar diseased in an exact learning registrate the reduction of the similar diseased in the reduction of the r

at the breadth of the fissure. The absolute top of the volcano consisted of a ridge, nearly ten feet thick, of sold misses of stone covered with a cust of law bleadth of the stone of the enough gas. Several irregular blocks of stone bying about as showed that the peak had once been a lattle higher. When, now and again, the gust of wind made this in the voyor, we perceived on the morthern commer of the plateau several recky columns the morthern commer of the plateau several recky columns are high, which had highert with sood both times of high.

higher than its southern edge Our descent took some time. We had still two-thirds are descent of it beneath us when night overtook us. In the hope of reaching the hut where we had left our provisions, we wandered about till eleven o'clock hungry and weary and at last were obliged to wait for daylight. This misfortune was owing not to our want of proper precaution, but to the unreliability of the carriers. Two of them, whom we had taken with us to carry water and refreshments, had disappeared at the very first; and a third, "a very trustworthy man," whom we had left to take care of our things at the hut, and who had been ordered to meet us at dusk with torches, had bolted, as I afterwards discovered, back to Daraga before noon. My servant, too, who was corrying a woolen blanket and an umbrella for me, suddenly vanished in the darkness as

soon as it began to rain, and though I repeatedly called him, never turned up again till the next morning. We passed the wet night upon the bare rocks, where, as our very thin clothes were perfectly wet through, we chilled till our teeth chattered. As soon, however, as the sun

opportunity of observing the summit from Daraga with a capital telescope on a very clear day, when I noticed that the northern side of the crater was considerably THE PORMER PHILIPPINES THRU FOREIGN EYES

rose we got so warm that we soon recovered our tempers. Towards nine o'clock we reached the but and got some

thing to eat after twenty-nine hours' fast In the Trabajos y Hechos Notables de la Soc. Econom. de les Amiges del Pais, for September 4th, 1823, it is said that "Don Antonio Siguenza paid a visit to the volcano of Albay on March 11th." and that the Society "ardered a medal to be struck in commemoration of the event, and in honor of the aforesaid Siguenza and his

companions." Everybody in Albay, however, assured me that the two Scotchmen were the first to reach the ton of the mountain. It is true that in the above notice the ascent of the volcano is not directly mentioned; but the fact of the medal naturally leads us to suppose that nothing less can be referred to. Arenas, in his memoir, says: "Mayon was surveyed by Captain Signenza. From the crater to the base, which is nearly at the level of the sea, he found that it measured sixteen hundred and eighty-two Spanish feet or four sixty-eight and twothird meters." A little further on, he adds, that he had read in the records of the Society that they had had a gold medal struck in honor of Siguenza, who had made some investigations about the volcano's crater in 1823. He, therefore, appears to have had some doubt about Siguenza's actual ascent.

his ascent of the volcano.

According to the Franciscan records a couple of monks attempted the ascent in 1592, in order to cure the natives of their superstitious belief about the mountain. One of them never returned; but the other, although he did not reach the summit, being stonned by three deep abvases, made a hundred converts to Christianity by the mere relation of his adventures. He died in the same year, in consequence, it is recorded, of the many variations of temperature to which he was exposed in Some books say that the mountain is of considerable names to be included to the highest but the Education Geographic of the Franciscans for with 1855, where one conside scarcely expect to find such a thoughtest repetition of see green a typographical error, the second of the second second

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I reasonate my foot to budy in necessing Mayon that Associational Uses obligated begin because for a month. Under the "seminations." I was not sorry to find myself settled in a nouncy and contrastible downline. My house was not not provided to the semination of th

The eacao-tree comes from Central America. It Coss. flourishes there between the 23rd parallel north and the 20th south lattiude; but it is only at its best in the hottest and dampest climates. In temperate climates, where the thermometer marks less than 23° C., it produces no fruit.

of coffee and tea, and even the messions and the well-

It was first imported into the Philippines from Acapulace, either, according to Camarines, by a pilot called Pedro Brabo de Lagunas, in 1670; or, according to Samar, by some Jesuits, during Salecció segovernament, between 1663 and 1668. Since them is has spread over the greater part of the Island, and Airblough is in one cultivated with part of the Island, and Airblough is in one cultivated with excessive unit; its fruit is of excellent quality. The excessive unit is the property of the Island of the Contensive and the Island of the Island of the Island of the content of the Island piece, generally is largely mixed with inferior kinds. The busines are usually found in small V guestion, done the houses; but so great is the native

Values are the second of the s

J. Part. And ACO Cons. A 600-85 (200 h. of Graze are consequent in Europe conjugate to the control of the Co

The natives generally cover the kernels, just as they Columare beginning to sprout, with a little earth, and, placing them in a spirally-rolled leaf, hang them up beneath the roof of their dwellings. They grow very rapidly. and, to prevent their being choked by weeds, are planted out at very short intervals. This method of treatment is probably the reason that the cases trees in the Philippines never attain a greater height than eight or ten feet, while in their native soil they frequently reach thirty, and sometimes even forty feet. The tree begins to bear fruit in its third or fourth year, and in its fifth or sixth it reaches maturity, when it usually yields a "ganta" of cacao, which, as I have mentioned, is worth from two to two and a half dollars, and always finds a

murchaser.\* The profits arising from a large plantation would Natur therefore, be considerable; yet it is very rare to meet with one. I heard it said that the Economical Society had offered a considerable reward to any one who could exhibit a plantation of ten thousand berry-bearing trees: but in the Society's most I found so mention of this reward.

The great obstacles in the way of large plantations are Assert the heavy storms which recur almost regularly every year, and often destroy an entire plantation in a single day. In 1856 a huggicage visited the Island just before the harvest, and completely tore up several large plantations by the roots: a catastrophe that naturally has caused much discouragement to the cultivators.† One consequence of this state of things was that the free \*C. Scierzer, in his work on Createst America, gives the demonstreet an existence of twenty years, and aros hist each tyre cannully greatures from 15 to 20 courses of exact, 1,500 plants will produce 1,150 the, of coops, owith \$150 to 30 courses of exact, 1,500 plants will produce 1,150 the, of coops, owith \$150 to 30 courses of exact, 1,500 the, of coops, owith \$150 to 30 courses of exact, 1,500 the existence of the exact of the In 1737 a harrisone destroyed as a simple blast the inspertant cases rightles tion of Martinique, which had been created by long years of entracrilinary care.
The same thing hencomed at Trinkled .-- Hillschrifth.

Diseases o

enabled to purchase Guayaqual cacao at fifteen dollars per quintal while that grown at home cost double the money. The plant is sometimes attacked by a disease, the origin of which is unknown, when it suffers severely from certain noxious insects.\* It is also attacked by rats and other predatory cermin; the former sometimes

rats and other predatory vermin; the former sometimes falling upon it in such numbers that they destroy the entire harvest in a single night. Travellers in America say that a well-kept cacao plantation is a very picturesque sight. In the Philippines, however, or at any rate in East Luzon, the closely-packed, lifeless-looking, moss-covered trees present a dreamy spectacle. Their existence is a brief one. Their avail bourse cometimes nearly a foot long, droop singly from the twigs, and form no luxuriant masses of foliage. Their blossoms are very insignificant; they are of a reddish-vellow, no larger than the flowers of the lime, and grow separately on long weedy stalks. The fruit ripens in six months. When it is matured, it is of either a red or a yellow tint, and is somewhat like a very rough gherkin. Only two varieties appear to be cultivated in the Philippines. † The pulp of the fruit is white, tender, and of an agreeable acid taste, and contains from eighteen to twenty-four kernels, arranged in five rows. These kernels are as large as almonds, and, like them, consist of a couple of husks and a small core. This is the cacao bean; which,

P. Engl relations a shown (raw-b) which grants the rest in America, which grants are not to the property of th

G. Bernselli quotes altogether eighteen kinds; of which he mentions only one on generally in use in the Philippinas.

roasted and finely ground, produces cacao, and with the addition of sugar, and generally of spice, makes chooslate. Till the last few years, every household in the Philippines made its own chocolate of nothing but come and sugar. The natives who eat chocolate often add reasted rice to it. Nowadays there is a manufactory in Manila, which makes chocolate in the European way. The inhabitants of the eastern provinces are very fond

of adding roasted vili nuts to their chocolate.\* Europeans first learnt to make a drink from cacao in Geolus Mexico, where the preparation was called chosolatit Even so far back as the days of Cortes, who was a tremendage charalate drinker, the caracters was extensively cultivated. The Aztecs used the beans as money: and Montezuma used to receive part of his tribute in this peculiar coin. It was only the wealthy among the ancient Mexicans who ate pure cacao; the poor, on account of the value of the beans as coins, used to mix maize and mandioca meal with them. Even in our own day the inhabitants of Central America make use of the beans as small coins, as they have no copper money, nor smaller silver coins than the half-real. Both in Central America and in Orinoco there yet are many

Nemerica America and in Creation United States (1982). The service of the States (1982) and the States (1982)

of wild cacao-trees. I believe the natives gather some of their fruit, but it is almost worthless. By itself it has much less flavor than the cultivated kinds. Certainly it is not picked and dried at the proper season, and it gets spolit in its long transit through the damp woods.

Since the abolition of slavery, the crops in America

have been diminishing yen by year, and until a short time ago, when the French lid out several large pleasations in Central America, were of but trifling value. According to F. Emgel, a flourishing came plantation required less outlay and trouble, and yields more profit than any other tropical plant; yet its harvests, which do not yield anything for the first five or six years, are very uncertain, ones to the transmission are only said to the plantation are only said to the plantation are only said to the plantation of the plantation who grow the trees in both own gardens. Moreover, as we have said, since the abolition of slavery most of the plantations have false into decay, for the free slaves are entirely wanting in industry.

The original chocolate was not generally reliabed in

slaves are entirely wasting in industry.

\*\*To show.\*\* The original checolate was not generally reliabed in 
\*\*Europe. When, however, at a later period, it was 
mixed with sugar, it me with more approbation. The 
exaggerated prates of its admireer snied a bitter opposit 
exaggerated prates of its admireer snied a bitter opposit 
priests raised consciousless out the new drink; and the 
priests raised consciousless the cutter of 
nourishing an article of food on fast days. The quarrel 
lasted till the seventeenth entury, by which time can 
had become an everyday necessity in Spain. It was first 
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for a long control of point in 1000, but checolect, on account 
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it was so entirely unknown in England that, in 1579,

an English captain burnt a captured cargo of it as useless. It reached Italy in 1606, and was introduced into France by Anne of Austria. The first checolate-house in London was opened in 1657, and in 1700 Germany at last followed suit.\*

The history of coffee in the Philippines is very similar to Cofe. that of cacao. The plant thrives wonderfully, and its berry has so strongly marked a flavor that the worst Manila coffee commands as high a price as the best Java. In spite of this, however, the amount of coffee produced in the Philippines is very insignificant, and, until lately, scarcely deserved mention. According to the report of an Englishman in 1828, the coffee-plant was almost unknown forty years before, and was represented only by a few specimens in the Botanical Gardens at Manila. It soon, however, increased and multiplied, thanks to the moderation of a small predatory animal (paradarurus musanga), which only nibbled the ripe fruit, and left the hard kernels (the coffee beans) untouched, as indigestible. The Economical Society bestirred itself in its turn by offering rewards to encourage the laying out of large coffee plantations. In 1837 it granted to M. de la Gironnière a premium of \$1,000, for exhibiting a coffee plantation of sixty thousand plants, which were vielding their second harvest; and four premiums to others in the following year. But as soon as the rewards were obtained the plantations were once more allowed to fall into neglect. From this it is pretty evident that the enterprise, in the face of the then market prices and the artificially high rates of freight, did not afford a sufficient profit.

Berthedd Securasas speaks of a tree with farger-shaped leaves and small round berries, which the Indians sometimes offered for sole. They made checolate from them, which in livery much supposed that usually node form curso.

In 1856 the exports of coffee were not more than seven thousand pixels: in 1856 they had increased to thirty-sevent thousand, five hundred and eighty-eight, and in 1871, to dity-street thousand, they have the same and a 1871, to dity-street thousand, there had not seventy. This increase, honever, advorb no extrema description. The same are the same as the same and a seventy. This increase, honever, advorb no extrema plantations, for the first few years after being hid out. In short, larger exports may be confidently expected. But every greatly increased exports could not be taken as correct measures of the colony's recourse. Not till European capital cited him plantations into existence in the most satisfable localities and the same and

Highest pate. The best coffee comes from the provinces of Laguna, Batangas and Cavite; the worst from Mindanao. The

latter, in consequence of careless treatment, is very impure, and generally contains a quantity of bad beans. The coffee beans of Mindanno are of a yellowish-white color and flabby; those of Laguna are smaller, but much firmer in texture.

renek reference fromer in texture. Manila coffer is very highly externed by commission, and it very expensive, though it is by no measures so nice and it was a support of the commission of t

<sup>.</sup> Report of the French count.

i Mysers and Moules coffers frich the highest pures. From \$20 to \$22.50 per cut, is paid for Mysors; and as much as \$30, when it has attended an age of five or its years, for Mocha.

California, an excellent customer, always ready to Price give a fair price for a good article, will in time become one of its principal consumers.\* In 1868, coffee in Manila itself cost an average of \$16 per nicul.† In Java. the authorities pay the natives, who are compelled to cultivate it. about \$3.66 per nicul-

Although the amount of coffee exported from the radioples Philippines is trifling in comparison with the producing supple powers of the colony, it compares favorably with the exports from other countries

In my Skeleker of Travel, I compared the decrease Josephand of the coffee produced in Java under the forced system. Crain craps. of cultivation with the increase of that voluntarily grown in Ceylon, and gave the Javanese produce for 1858 as sixty-seven thousand tons, and the Cinealese as thirty-five thousand tons. Since that time the relative decrease and increase have continued; and in 1866 the Dutch Indies produced only lifty-six thousand tons, and Ceylon thirty-six thousand tons !

During my enforced stay in Daraga the natives brought Assessed me mussels and snails for sale; and several of them similar. wished to enter my service, as they felt "a particular vocation for Natural History," At last my kitchen was always full of them. They sallied forth every day to collect insects, and as a rule were not particularly

· In 1865-66-67 California imported there and one-half, eight and ten million the device of the formation imperied there and emenant, each one ten handle, the dividing of the formation and the properties of the formation in 1800 England was the best contourer of the Philippine.

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Nite eigar cars. a dark night

In the neighboring pueblo eigar-cases were made out of this nile. They are not of much use as an article of commerce, and usually are only made to order. To obtain a dozen a would-be purchaser must apply to as many individuals, who, at the shortest, will condescend to finish one in a few months. The stalk of the fern, which is about as thick as a lucifer match, is split into four strips. The workman then takes a strip in his left hand, and, with his thumb on the back and his forefinger on the edge, draws the strips up and down against the knife blade until the soft pithy parts are cut away, and what remains has become fine enough for the next process. The cases are made on pointed cylindrical pieces of wood almost a couple of feet long. A pin is stuck into the center of the end of the cylinder, and the workman commences by fastening the strips of fern stalle to it. The size of the case corresponds to the

<sup>\*</sup> A crosping, or rather a running form, nearly the only one of the kind in the whole species.

diameter of the roller, and a small wooden disk is placed in the bottom of the case to keep it steady while the sides are being plaited.

When my ankle began to get better, my first excursion, 4 Filinger was to Legaspi, where some Filipinos were giving a theatrical performance. A Spanish political refugee directed the entertainment. On each side of the stage. roofed in with palm leaves, ran covered galleries for the dignitaries of the place; the uncovered space between these was set apart for the common people. The performers had chosen a play taken from Persian history. The language was Spanish, and the dresses were, to say the least, eccentric. The stage was erected hard by a public street, which itself formed part of the auditorium. and the noise was so great that I could only catch a word here and there. The actors stalked on, chattering their parts, which not one of them understood, and

moving their arms up and down; and when they reached the edge of the stage, they tacked and went back again like ships sailing against the wind. Their countenances were entirely devoid of expression, and they spoke like automatons. If I had understood the words, the contrast between their meaning and the machine-like movements of the actors would probably have been droll enough; but, as it was, the noise, the heat, and the smoke were so great that we soon left the place.

\* Both the theatrical performance and the whole festival

bore the impress of laziness, indifference, and mindless mimicry. When I compared the frank cheerfulness I had seen radiating from every countenance at the religious holidays of Europe with the expressionless and immobile faces of the natives. I found it difficult to understand how the latter were persuaded to waste so much time and money upon a matter they seemed so thoroughly indifferent to

wat in

Travellers have remarked the same want of gaiety amonest the Indians of America; and some of them ascribe it to the small development of the nervous system prevalent among these peoples, to which cause also they attribute their wonderful courage in bearing pain. But Tylor observes that the Indian's countenance is so different from ours that it takes us several years to rightly interpret its expression. There probably is something in both these explanations. And, although I observed no lively expression of amusement among my native friends at Legaspi, I noticed that they took the greatest possible pleasure in decorating their village and that the procession which formed part of the festival had extraordinary charms for them. Every individual was dressed in his very best; and the honor of carrying a banner inspired those who attained it with the greatest pride, and raised an amazing amount of envy in the breasts of the remainder. Visitors poured in from all the surrounding hamlets, and erected triumphal archet which they had brought with them ready-made and which bore some complimentary inscription. I am obliged to confess that some of the holiday-makers were very drunk. The inhabitants of the Philippines have a great love for strong drink; even the young girls occasionally get intoxicated. When night came on, the strangers were hospitably lodged in the dwellings of the village. On such occasions native hospitality shows itself in a very favorable light. The door of every house stands open, and even balls take place in some of the larger hamlets. The Spanish and mestizo cavaliers, however, condescend to dance only with mestiza partners, and very seldom invite a pretty native girl to join them. The natives very rarely dance together; but in Samar I was present on one occasion at a by no means ungraceful native dance where "improvised" verses were sungThe male dancer compared his partner with a rose, and

she answered he should be careful in touching it as a rose had thorns. This would have been thought a charm-

ing compliment in the mouth of an Andalusian The idle existence we spent in Daraga was so agree- Semant

able to my servants and their numerous friends that enterland they were anxious I should stay there as long as possible: and they adopted some very ingenious means to persuade me to do so. Twice, when everything was prepared for a start the next morning, my shoes were stolen in the night; and on another occasion they kidnapped my horse. When a native has a particularly heavy load to carry, or a long journey to make, he thinks nothing of coolly appropriating the well-fed beast of some Spaniard: which, when he has done with it, he turns loose without attempting to feed it, and it wanders about till somebody catches it and stalls it in the nearest "Tribunal." There it is kept tied up and hungry until its master claims it and pays its expenses. I had a

nearly starved to death, on the pretence that it had swallowed rice to that value since it had been caught. Small robberies occur very frequently, but they are Polaristeries committed—as an accusintance, a man who had spent some time in the country, informed me one evening when I was telling him my troubles-only upon the property of new arrivals; old residents, he said, enjoyed

dollar to pay when I recovered mine, although it was

a prescriptive freedom from such little inconveniences. I fancy some waggish native must have overheard our conversation, for early the next morning my friend, the old resident, sent to borrow chocolete, biscuits, and exes of me, as his larder and his hen-house had been rifled during the night

raya mark

nights, and in fine weather always affected a pretty sight. The women, nearly and clean, test in long rows and offered their provisions for sale by the light of hundreds of technel: and, when the business was over, the abopes of the mountains were studied all over with filledering little points of brightness proceeding from the turches carried by the homeward-bound market women. Besides extantibles, many had allies and stuffer women. Besides extantibles, many had allies and stuffer the process of the mountain which is the same for sale. These goods the pine apple and the banana for sale. These goods the given are provided that the process of the pine apple and the banana for sale. These goods the pine apple and the banana for sale. These goods the pine apple and the banana for sale. These goods the pine apple and the banana for sale. These goods the pine apple and the banana for sale. These goods the pine apple and the banana for sale.

## XI

During the whole time I was confined to the house at Daraga, the weather was remarkably fine; but unfortunately the bright days had come to an end by the time I was ready to make a start, for the north-east monsoon, the sure forerunner of rain in this part of the Archipelago, sets in in October. In spite, however, of the weather, I determined to make another attempt to ascend the mountain at Bulusan. I found I could go by boat to Bacon in the Bay of Albay, a distance of seven lengues, whence I could ride to Gubat, on the east coast, three leagues further, and then in a southerly direction along the shore to Bulusan. An experienced old native, who provided a boat and crew, had appointed ten o'clock at night as the best time for my departure. Just as we were about to start, however, we were told that four piratical craft had been seen in the bay. In a twinkling, the crew disappeared, and I was left alone in the darkness; and it took me four hours with the

assistance of a Spaniard to find them again, and make a fresh start. About nine o'clock in the morning we reached Bacon, whence I rode across a very flat country to San Roque, where the road leading to Gubat took a sharp turn to the south-east, and presently became an extremely ba 1 one. After I had passed Gubat, my way lay along the shore; and I saw several ruined square towers, made of blocks of coral, and built by the Jesuits as a protection against the Moros, or "Moors"-a term Mare single. here applied to the pirates, because, like the Moors who were formerly in Spain, they are Mahometans. They come from Mindanao and from the north-west coast of Bomeo. At the time of my visit, this part of the Archipelago was greatly infested with them; and a few days before my arrival they had carried off some fishermen, who were busy pulling their fish-stakes, close to Gubat. A little distance from the shore, and parallel to it, ran a coral reef, which during the south-west monsoon was here and there bare at low tide; but, when the north-east wind blew, the waves of the Pacific Ocean

entirely concealed it. Upon this reef the storms had cast up many remains of marine animals, and a quantity of fungi, amongst which I noticed some exactly resembling the common sponge of the Mediterranean. They were just as soft to the touch, of a dark brown tint, as large as the fist, and of a conical shape. They absorbed water with great readiness, and might doubtless be made a profitable article of commerce. Samples of them are to be seen in the Zoological Museum at Berlin. As I went further on, I found the road excellent; and wooden bridges, all of which were in good repair, led me across the mouths of the numerous small rivers. But almost all the arches of the stone bridges I came to had fallen in, and I had to cross the streams they were supposed to span in a small boat, and make my horse swim after me. Just before I reached Bulusan, I had to cross a ravine several hundred feet deep, composed almost

entirely of white numice stone.

Bulusan is so seldom visited by strangers that the "tribunal" where I put up was soon full of curiositymongers, who came to stare at me. The women, taking the places of honor, squatted round me in concentric rows, while the men peered over their shoulders. One morning when I was taking a shower-bath in a shed made of open bamboo work, I suddenly noticed several pairs of inquisitive eyes staring at me through the interstices. The eves belonged exclusively to the gentler sex; and their owners examined me with the greatest curiosity, making remarks upon my appearance to one another. and seeming by no means inclined to be disturbed. Upon another occasion, when bathing in the open air in the province of Laguna, I was surrounded by a number of women, old, middle-aged, and young, who crowded round me while I was dressing, carefully inspected me, and pointed out with their fingers every little detail

which seemed to them to call for special remark. I had travelled the last part of the road to Bulusan in wind and rain; and the storm lasted with little intermission during the whole night. When I got up in the morning I found that part of the roof of the tribunal had been carried away, that the slighter houses in the hamlet were all blown down, and that almost every dwelling in the place had lost its roof. This pleasant weather lasted during the three days of my stay. The air was so thick that I found it impossible to distinguish the volcano, though I was actually standing at its foot; and, as the weather-wise of the neighborhood could hold out no promise of a favorable change at that time of the year, I put off my intended ascent till a better opportunity, and resolved to return. A former alcalde, Peñe-

n-futer.

rands, was reported to have succeeded in reaching the top fifteen years before, after sixty men had spent a couple of months in building a road to the summit, and the secret was said to have taken him two works. But an experienced native told me that in the dry seame through from me were quite sufficient to open a narrow path to the plateau, just under the peak, in a couple of days; but that hadders were required to get

on to the actual summit.

The day after my arrival the inspector of highways density and another man walked into the tribunal, both of them additional wet to the skin and nearly blown to pieces. My friend

wet to the skin and nearly blown to pieces. My friend the alcelife had sent them to my assistance; and, as none of us could attempt the ascent, they returned with me. As we were entering Bacon on urway back, we heard the report of camon and the sound of music, the report of camon and the sound of music, and the sent of the sent of the sent of the properties. The contract of the sent of the secondaried by an irrepular according about in sile hats and shirts fluttering in the wind. The sleakle political properties are sent and no hours drive took use.

into Serogon.

The roads of the province of Albay are good, but they also are are by no means kept in good require a state of things. What will never be remedled so long as the intelligent of the authorities continues. Most of the stane bridge in the district are in ruins, and the treveller is obliged to content himself with wading through a ford, or get himself ferried arcsus upon a raft or in a small cance, while his horse swims behind him. The roads were first thin the stane when the stane were the continues of the stane which has been seen to the stane of the stane when the stane

and for having accomplished so much from such small resources. He took care that all socage service should be duly rendered, or that money, which went towards paving for tools and materials, should be paid in lieu of it. Many abuses existed before his rule: no rest services were performed by anybody who could trace the slightest relationship to any of the authorities; and when by chance any redemption money was paid, it went, often with the connivance of the alcalde of the period, into the pockets of the gobernulercillos, instead of into the provincial treasury. Similar abuses still prevail all over the country, where they are not prevented by the vigilance of the authorities. The numerous nonulation, and the prosperity which the province now enjoys, would make it an easy matter to maintain and complete the existing highways. The admirable officials of the district are certainly not wanting in goodwill, but their hands are tied. Nowadays the alcaldes remain only three years in one province (in Penaranda's time, they remained six); their time is entirely taken up with the current official and judicial business; and, just as they are beginning to become acquainted with the capabilities and requirements of their district, they are obliged to leave it. This shows the government's want of confidence in its own servants. No alcalde could now possibly undertake what Peñaranda accomplished. The money paid in lieu of socage service, which ought to be applied to the wants of the province in which the socage is due, is forwarded to Manila. If an alcalde proposes some urgent and necessary improvement, he has to send

in so many tedious estimates and reports, which frequently remain unnoticed, that he soon loses all desire to attempt any innovation. Estimates for large works, to carry out which would require a considerable outlay, are invariably returned from headquarters marked "not

Tambinamen

Jayer's Tennels in the Philippines

urgent." The fact is, not that the colonial government Posts Sicrist is wanting in good-will, but that the Caja de Comunidad

(General Treasury) in Manila is almost always empty,

as the Spanish government, in its chronic state of bank-

motey, horrows the money and is never in a position

to return it

In 1840 Sorsogon suffered severely from an earth, armon

quake, which lasted almost continuously for thirty-five

days. It raged with the greatest fury on the 21st of

March. The churches, both of Sorsogon and of Casi-

guran, as well as the smallest stone houses, were destroyed; seventeen persons lost their lives, and two hundred

were injured; and the whole neighborhood sank five

feet below its former level.

The next morning I accompanied the alcalde in a Casparas.

falua (felucca), manned by fourteen rowers, to Casi-

guran, which lies directly south of Sorsogon, on the other

side of a small bay, of two leagues in breadth, which it

took us an hour and a half to cross. The bay was as calm as an inland lake. It is almost entirely surrounded by hills, and its western side, which is open to the sea.

is protected by the Island of Bagalao, which lies in front of it. As soon as we landed, we were received with

alcalde to accompany him any further; as to me, who had no official business to transact, the journey seemed nothing

in the wind. I declined the friendly invitation of the

but a continually recurring panorama of dinners, lunches,

cuns of chocolate, music, and detonations of gunpowder,

In 1850 quicksilver was discovered on a part of the Caldwine.

coast now covered by the sen. I examined the reported

hed of the deposit, and it anneared to me to consist

of a stratum of clay six feet in depth, superimposed over a layer of volcanic sand and fragments of pumice stone. An Englishman who was wrecked in this part of the

salutes of cannon and music, and flags and shirts streamed

Archipolago, the same individual I met as the iron works at Angah, and began to collect it, and by awahing the sand had obtained something like a couple of onces. Execution of the control of the contro

in a straight line with Casiguran.

Every year the san makes great inroads upon the coast at Casiguran: a far at I could decide from its appearance and from the accounts given me, about a yard of the shore is annually destroyed. The lay of Sorsegon is protected towards the north by a ridge of hills, which suddenly terminate, however, at its north-

approxime ann from the accounts given me, anous a supposition of the plan of t

When I reached Leganja again in the evening. I learn that the alarm about the prirate which had interrupted my departure had not been an idle one. Moran they certainly could not been an idle one. Moran they certainly could not have been, for a that senson now of the Mahometan corasirs could reach that part of the coast; but they were a hand of describers and vegabods from the surrounding country, who in this part of the world find it more agreeable to pursue their freebooting world find it more agreeable to pursue their freebooting as than on land. During my observe that carried off several people.

\* The official accounts stated that they had kidnapped twenty-one per in a couple of weeks.

The beginning of November is the season of storms; when water communication between Albay and Manila entirely ceases, no vessel daring to put out to sea, even from the south coast. On the 9th of the month, however, a vessel that had been given up for lost entered the port, after having incurred great perils and being obliged to throw overboard the greater part of its cargo. Within twelve days of its leaving the straits of San Bernardino behind it, a sudden storm compelled it to anchor amongst the Islands of Balicuatro. One of the passengers, a newly-arrived Spaniard, put off in a boat with seven sailors, and made for four small vessels which were riding at anchor off the coast; taking them for fishermen, whereas they were pirates. They fired at Red piones. him as soon as he was some distance from his ship, and his crew threw themselves into the water; but both he and they were taken prisoners. The captain of the trading brig, fearing that his vessel would fall into their clutches, slipped anchor and put out to see again, escaping shipwreck with the greatest difficulty. The pirates, as a rule, do not kill their prisoners, but employ them as rowers. But Europeans seldom survive their captivity: the tremendous labor and the scanty food are too much for them. Their clothes always being stripped off their back, they are exposed naked to all sorts of weather, and their sole daily support is a handful of rice.

XII

No favorable change in the weather was expected in Albay before the month of January. It stormed and rained all day. I therefore determined to change my quarters to South Camarines, which, protected from the monsoon by the high range of hills running along its north-castern boundary, enjoyed more decent weather.

The two provinces of Camarines form a long continent. with its principal frontage of shore facing to the northeast and to the south-west; which is about ten leagues broad in its middle, and has its shores indented by many bays. From about the center of its north-eastern shore there boldly projects the Peninsula of Caramuan, connected with the mainland of Camarines by the isthmus of Isarog. The north-eastern portion of the two provinces contains a long range of volcanic hills; the southwestern principally consisted, as far as my investigations permitted me to discover, of chalk, and coral reefs: in the midst of the hills extends a winding and fertile valley, which collects the waters descending from the slopes of the mountain ranges, and blends them into a navigable river, on the banks of which several flourishing hamlets have established themselves. This river is called the Bicol. The streams which give it birth are so abundant, and the slone of the sides of the valley. which is turned into one gigantic rice-field, is so gentle that in many places the lazy waters linger and form small lakes.

releasers

· Beginning at the south-eastern extremity, the volcanoes of Bulusan, Albay, Mazaraga, Iriga, Isarog, and Colasi-the last on the northern side of San Miguel bay -are situated in a straight line, extending from the south-east to the north-west. Besides these, there is the volcano of Buhi, or Malinao, a little to the northeast of the line. The hamlets in the valley I have mentioned are situated in a second line parallel to that of the volcanoes. The southern portion of the province is sparsely inhabited, and but few streams find their way from its plateau into the central valley. The range of volcanoes shuts out, as I have said, the north-east

winds, and condenses their moisture in the little lakes scattered on its slopes. The south-west portion of Cama-

rines, therefore, is dry during the north-east morsoon, and enious its rainy season during the prevalence of the winds that blow from the south-west. The so-called dry season which, so far as South Camarines is concerned, begins in November, is interrupted, however, by frequent showers; but from Ianuary to May scarcely a drop of rain falls. The change of monsoon takes place in May and June; and its arrival is announced by violent thunderstorms and hurricanes, which frequently last without cessation for a couple of weeks, and are accompanied by heavy rains. These last are the beginning of the wet season proper, which lasts till October. The road passes the hamlets of Camalig, Guinobatan, Ligao, Oas and Polangui, situated in a straight line on the banks of the river Quinali, which, after receiving numerous tributary streams, becomes navigable soon after passing Polangui. Here I observed a small settlement of huts, which is called after the river. Each of the hamlets I have mentioned, with the exception of the last, has a population of about fourteen thousand souls, although they are situated not more than half a league apart.

The convents in this part of the country are large, reimposing buildings, and their incumbents, who were
mostly old men, were most hospitable and kind to me.
Every one of them insisted upon my askying with him,
and the convent of the country of the country of the country
and the country of the country of the country of the country
whele to hire a beat at Polangia to creat the lake of
Batu, but the only raft I could find were a couple of
burstes about eight feet long, holowed out of the trumbe
of trees and laden with rice. To prevent my meeting
with any delay, the parter purchased the carge of one
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burney in the effection.

If a traveller gets on good terms with the prices. In eldom meets with any annoyance, Upon one occasion I wished to make a little excursion directly after hunch, and at a quarter past eleven verything was ready to a superior of the little was a piny to have to wait three-quarters of the little was a piny to have to wait three-quarters of the little was a little was a

Most of the priests in the eastern provinces of Luzon and Samar are Franciscan monks (The barefooted frians of the orthodox and strictest rule of Our Holy Father St. Francis, in the Philippine Islands, of the Holy and Apostolic Province of St. Gregory the Great). brought up in seminaries in Spain specially devoted to the colonial missions. Formerly they were at liberty, after ten years' residence in the Philippines, to return to their own country; but, since the abolition of the monasteries in Spain, they can do this no longer, for they are compelled in the colonies to abandon all obe-· dience to the rule of their order, and to live as laymen. They are aware that they must end their days in the colony, and regulate their lives accordingly. On their first arrival they are generally sent to some priest in the province to make themselves acquainted with the language of the country; then they are installed into a small parish, and afterwards into a more lucrative one, in which they generally remain till their death. Most of them spring from the very lowest class of Spaniards. A number of pious trusts and foundations in Spain enable a very poor man, who cannot afford to send his son to school, to put him into a religious, seminary.

where, Beyond the duties of his future, asceration, the boy learns nothing. If the mosts are a higher social grade, as are some of the English of a higher social grade, as are some of the English of an expension they would have bescincilation to not with the content of the property of the property of the property of the they would at present. The early habits of the Synails of the property of the property of the world, peculiarly fit them for arraw knowledge of the world, peculiarly fit them for arraw knowledge of the world, peculiarly fit them for a present and the sum of the property of the mental equality, has enabled them to acquire the influence they are undoubtedly possession.

When these young men first come from their seminaries Party am they are narrow-brained, ignorant, frequently almost repealable devoid of education, and full of conceit, hatred of hereties. and proselytish ardor. These failings, however, gradually disappear; the consideration and the comfortable incomes they enjoy developing their benevolence. The insight into mankind and the confidence in themselves which distinguish the lower classes of the Spaniards. and which are so amusingly exemplified in Sancho Panza, have plenty of occasions to display themselves in the responsible and influential positions which the priests occupy. The padre is frequently the only white man in his village, probably the only European for miles around. He becomes the representative not only of religion, but of the government; he is the oracle of the natives, and his decisions in everything that concerns Europe and civilization are without appeal. His advice

is asked in all important emergencies, and he has no one whom he is turn can consult. Such a state of things naturally develops his brain. The same individuals who in Spain would have followed the plough, in the ecolonies carry out great undertakings. Without any technical education, and without any scientific fromvielage, they build churches and bridges, and con-

struct roads. The circumstances therefore are greatly

laar archibecte

in favor of the development of priestly ability; but is would probably be better for the buildings if they were erected by more experienced men, for the bridges are remarkably prone to fall in, the churches look like sheeppens, and the roads soon go to rack and ruin. I had much intercourse in Camarines and Albay with the priests, and conceived a great liking for them all. As a rule, they are the most unpretending of men; and a visit gives them so much pleasure that they do all in their power to make their guest's stay as agreeable as possible. Life in a large convent has much resemblance to that of a lord of the manor in Eastern Europe. Nothing can be more unconstrained, more unconventional. A visitor lives as independently as in an hotel, and many of the visitors behave themselves as if it were one. I have seen a subaltern official arrive, summon the head servant, move into a room, order his meal, and then inquire casually whether the padre, who was an utter stranger to him, was at home.

The priests of the Philippines have often been reproached with grow immorality, and to a leep their convents full of bevies of Treys are said to a leep their convents full of bevies of Treys are suffered to the convents full of bevies of the their convents full of bevies of the function. This may be true of the native podres; but I myself never awn, in any of the households of the numerous Spanish priests I visited, mything that could possibly conserve the least breast of seended. Their servents were more than the convention that they are mything in may have noticed here and tended where and otherwise the convention that they are removed. But the office the conclusion that they are removed to lead these low form a stray, using the charmal of some overty foliation and stray for the convention that the charmal of some overty foliation.

girl as a bait, yet, to the confusion of both damsel and devil, the monks had always come scathless out of the struggle." Ribadeneyra, however, is a very unreliable author; and, if his physiological mistakes are as gross as his geographical ones (he says somewhere that Luzon is another name for the island of Cebuft, the monks are not perhaps as fireproof as he supposes. At any rate, his description does not universally apply nowadays. The younger priests pass their existence like the lords of the soil of old; the young girls consider it an honor to be allowed to associate with them; and the padres in their turn find many convenient opportuniries. They have no jealous wives to pry into their secrets, and their position as confessors and spiritual advisers affords them plenty of pretexts for being alone with the women. The confessional, in particular, must be a perilous rock-a-head for most of them. In an appendix to the "Tagal Grammar" (which, by-thehve, is not added to the editions sold for general use) a list of questions is given for the convenience of young priests not yet conversant with the Tagal language. These questions are to be asked in the confessional, and several pages of them relate exclusively to the relations

province, they never understand much of its language; and, being much complet with their official business, they have neither the time and their to become equation of the the popularities are causanted with the popularities and the state over which they rule. The priest, on the other latest over which they rule. The priest, on the other latest over disc continually in the midst of his pradiators, is perfectly acquainted with each of them, and even, on occasion, protects them against the authorities; his, therefore, is the real jurisdiction in the district. The position of the pricks, incontradistication to that of the

As the alcaldes remain only three years in any one symmistry or

between the sexes.

government officials, is well expressed by their respective dwellings. The cause roles, generally small, ugly, and dwellings. The cause roles, generally small, ugly, and dignity of the client abundance, are not anized to the controls, on the contrary, is observed, on the contrary, and only only only when governouslips were salt to adventureers whose only care was to entire themselves, the influence of the minister of religion was -ven greater than it is now.\*\* The following extract from the General Oders, given by

efolus.

position:-

"Whereas the tenth chapter of the perimones, where in the governe of Armadia ordigated that the include and the justices should cammonicate with the missionary priests only by letter, and that they should never hole priests only by letter, and that they should never hole priests only by letter, and that they should never hole whereas the should be a should be a should never hole whereas has been from except in the presence of a winess, has been from a should be a should be a laboved; and that the alreades shall make it their busitant the goldent the priests and minister so freight on the should be a should be a should be a should be that the goldent should be a should be a should be justice with proper respect. The shall be a should be a priest be not allowed either to beat, chastice, or till

Le Gentil, will convey a clear idea of their former

farmerly in trais.

trust the latter, or make how the six at table.

The former loadies who, without at table.

The six and table and table and table and table business, without either education or knowledge, and without either the brains or the moral qualifications for such responsible and influential posts, purchased their growth of the six and table a

Le Greatly in the Proof on the Latins Sont, (1761) were "The ments are the feel related the provinces." Their panet is no minuted that no bind a great deed circulate." Their panet is no minuted that no bind a great deed circulate."

paid by the alcaldes as a fine imposed upon them for an infringement of the law: "for several ordinances were in existence, strenuously forbidding them to dabble in any kind of commerce, until it pleased his Catholic Majesty to grant them a dispensation." The latter sources of mischief were, however, abolished by royal decree in September and October, 1844.

The alcaldes were at the same time governors, magis. Their terrored trates, commanders of the troops, and, in reality, the only traders in their province." They purchased with the resources of the obras pias the articles required in the province; and they were entirely dependent for their capital upon these endowments, as they almost always

arrived in the Philippines without any means of their own. The natives were forced to sell their produce to the alcaldes and, besides, to purchase their goods at the prices fixed by the latter." In this corrupt state of things the priests were the only protectors of the unfortunate Filipines: though occasionally they also threw in their lot with the alcaldes, and shared in the

spoil wrung from their unfortunate flocks

Nowadays men with some knowledge of the law are Improved to sent out to the Philippines as alcaldes; the government appoints. navs them a small salary, and they are not allowed to trade. The authorities also attempt to diminish the influence of the priests by improving the position of the civil tribunals; a state of things they will not find easy of accomplishment unless they lengthen the period of service of the alcaldes, and place them in a pecuniary position that will put them beyond the temptation of

\* St. Crair.

packeting perquisites †

 <sup>31.</sup> Cross.
 There are three circues of alculdeships, manely, entrode, persons, and ferming 1. There are times effected abculdedups, manney, encount, mercus, are removed, effected to the control of th

Similarity with

relating to the effects of the frequent official changes in China, from which many hints may be gathered:— "The magisterial offices are no longer bestowed upon upright and just individuals, and, as a con-

couditions.

sequence, this once flourishing and well-governed kingdom is day by day falling into decay, and is rapidly gliding down the path that leads to a terrible and nerhans, speedy dissolution. When we seek to discover the cause of the general ruin, the universal corruption which too surely is undermining all classes of Chinese society, we are convinced that it is to be found in the complete abandonment of the old system of government effected by the Manchu dynasty. It issued a decree forbidding any mandarin to hold any post longer than three years in the same province, and prohibiting any one from possessing any official appointment in his native province. One does not form a particularly high ides of the brain which conceived this law; but, when the Manchu Tartars found that they were the lords of the empire, they began to be alarmed at their small numbers, which were trifling in comparison with the countless swarms of the Chinese; and they dreaded lest the influence which the higher officials would acquire in their districts might enable them to excite the populace against their foreign rulers. "The magistrates, being allowed to remain only a year or two in the same province, lived there like strangers, without acquainting themselves

Unidentified wild country.

parties with the constless awarms of the Chinese.

officials would eaguire in their districts might
enable them to excite the populace against their

"The magnitures, being allowed to remain
only a year or two in the same province, loved there
with the wants of the people they governed,
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their was no its between them. The only care of
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approximents. They were only birds of passage.

at the other end of the kingdom, where the eries
at the other end of the kingdom, where the eries

of their plundered victims would be unable to reach them. In this manner the governmental policy rendered the mandarins selfish and indifferent. The basis of the monarchy is destroyed, for the magistrate is no longer a paternal ruler residing amongst and mildly swaying his children, but a marauder, who arrives no man knows whence, and who denarts no one knows whither. The consequence is universal stagnation; no great undertakings are accomplished; and the works and labors of former dynasties are allowed to fall into decay. The mandarins say to themselves: 'Why should we undertake what we can never accomplish? Why should we sow that others may reap?" \* \* "They take no interest in the affairs of the district; as a rule, they are suddenly transplanted into the midst of a population whose dialect even they do not presented to understand. When they arrive in their mandarin- increases.

ates they usually find interpreters, who, being permanent officials and interested in the affairs of the place, know low to make their services indispensable: and these in reality are the absolute rulers

Interpreters are especially indispensable in the Pill- Insurance projects, where the sizelades never by any chance under- more stand any of the lead dislets. In important matter Polyspans, thand any of the lead dislets. In important matter Polyspans, than any of the lead dislets. In important matter with the marker writers have generally to deliwith the printer of authority. He is finalized with the characters of the inhabitants and all their affairs, in the settlement of which his infinite acquisitance with the female set which his infinite acquisitance with the female set which has the companies of the settlement o

of the district

colonies to three years.\*

<sup>•</sup> The low biniting the describes of appointments to this short period dates from the earliest days of Sperials colonization in America. There was also a variety of minor regulations, based on amplicate, possibiliting the higher efficient from rations in theseloy intercenance with the colonization.

an official might become too powerful in some distant province, and that his influence might prove a source of danger to the mother country, is no longer entertained Increased traffic and easier means of communication have destroyed the former isolation of the more distant provinces. The customs laws, the increasing demand for colonial produce, and the right conceded to foreigners of settling in the country, will give a great stimulus to agriculture and commerce, and largely increase the number of Chinese and European residents. Then at last, perhaps, the authorities will see the necessity of improving the social position of their officials by decreasing their number, by a careful selection of persons, by

Datch molecu.

promoting them according to their abilities and conduct and by increasing their salaries, and allowing them to make a longer stay in one post. The commercial relations of the Philippines with California and Australia are likely to become very active, and liberal ideas will be introduced from those free countries. Then, indeed, the mother country will have earnestly to consider whether it is advisable to continue its exploitation of the colony by its monopolics, its withdrawal of gold, and its constant satisfaction of the unfounded claims of a swarm of hungry place-hunters.\* English and Dutch colonial officials are carefully and

expressly educated for their difficult and responsible positions. They obtain their appointments after pas-

A sector paint in the Philippine race related to me, quite of Mi comercia, done in the control of the contro to satisfie or conserve work were use use enjoyed one relate such a deep super-sion on this that he determined to tree privat; and it is the same felicitors throught that has impelled we many popularities attributes to become calculathought that has insprint so instructional attribute a action to account confricts. The little opening for civil lake in Spain and Duringal, and the propert of comfortable perquisites in the colonies, have sent numry in tarrying observed.

sing a stringent examination at home, and are promoted to the higher colonial offices only after giving proofs of fitness and ability. What a different state of things prevails in Spain! When a Spaniard succeeds in getting an appointment, it is difficult to say whether it is due to his personal capacity and merit or to a series of successful political instance.<sup>2</sup>

## XIII

Is an hour and a half after leaving Polanqui we reached heatu, a village on the north-western shores of the lake of the same name. The inhabitants, particularly the women, struck me by their uglines and want of clean-their control of the lake, and dreave their daily divideing water from the lake, and dreave their daily divideing water from their daily daily divideing water from their daily daily daily daily daily daily daily

Towards the end of the rainy season, in November, These, the lake extends far more widely than it does in the dry, and overflows its shallow banks, especially to the southwest. A great number of water-plants grow on its borders; amongst which I particularly noticed a delicate seaweed, it as fine as horse hair, but intertwined in such

close and endless ramifications that it forms a flooring strong enough to support the languest waterfowl. It "The resistants of the Rice be pure, and he explained a sure by information for the real source of all certainess in the Printings. They are constructed and information applies the effect. Not end wheth, and of the Saira, which all saturates to true not take to their some sure. Short of the Saira, which all saturates to true not take to their some sure. Short they have been supported by the sure of the Saira, which all saturates to true not take to their some sure. Short they have been supported by the sure of the Saira which all saturates to true not take to the con-

1 According to Granow, Chrisphens arriagens Kuetzing—Confern arriagens

saw hundreds of them hopping about and eating the shell fish and prawm, which swarmed amidst the meshes of the net-like seaweed and fell an easy prey to their feathered enemies. The natives, too, were in the habit of eatching immense quantities of the prawns with nets made for the nurnose. Some they are fresh; and some they kept till they were putrid, like old cheese, and then used them as a relish to swallow with their rice. These small shell-fish are not limited to the Lake of Batu. They are caught in shools in both the salt and the fresh waters of the Philippine and Indian archipelagos, and when salted and dried by the natives, form an important article of food, eaten either in soup or as a kind of notred paste. They are found in every market, and are largely exported to Ching. I was unable to shoot any of the waterfowl, for the tangles of the seaweed prevented my boat from getting near them

When I revisited the same lake in February, I found its waters so greatly fallen that they had left a circular belt of shore extending all around the lake, in most places nearly a hundred feet broad. The withdrawal of the waters had compressed the tangled seawerd into a kind of matting, which, bleached by the sun, and nearly an inch thick, covered the whole of the shore, and hung suspended over the stunted bushes which, on my first visit, had been under water. I have never either seen elsewhere, or heard any one mention, a similar phenomenon. This stuff, which could be had for nothing, was excellent for rifle-stoppers and for the stuffing of birds, so I took a great quantity of it with me. This time the bird-hunting went well, too.

The native priest of Batu was full of complaints about his parishioners, who gave him no opportunities of gaining an honest penny. "I am never asked for a mass, sir; in fact, this is such a miserable hole that it is shunned

by Death itself. In D., where I was for a long time condittor, we had our couple of burials regularly every day at three dollars a head, and as many master of a dollar apiece as we had time to say, besides christenings and weddings, which always brought a little more grist to the mill. But here nothing takes place, and I scarcely make anything." This stagnant state of things had induced him to turn his attention to commerce. The average native priest, of those I saw, could hardly be called a credit to his profession. Generally ignorant, often dissipated, and only superficially acquainted with his duties, the greater part of his time was given over to gambling, drinking, and other objectionable amusements. Little care was taken to preserve a properly decorous behavior, except when officiating in the church, when they read with an abourd assumption of dignity, without understanding a single word, The conventos are often full of girls and children, all of whom help themselves with their fingers out of a common dish. The worthy padre of Batu introduced a couple of pretty girls to me as his two poor sisters, whom, in spite of his poverty, he supported; but the servants about the place openly spoke of these young ladies' babies as being the children of the priest. \* The guiding principle of Spanish colonial policy-to vacanties

set one class against another, and to prevent either from becoming too powerful—seems to be the motive for placing so many native incumbents in the paraonages of the Archivelage. The prudence of this proceeding, however, seems doubtful. A Spanish priest has a great dead of influence in his worn immediate circle, and forms, perhaps, the only enduring link between the colony and the mother-country. The native pients is far from allording any compensation for the lack of either of these advantages. He generally is but little respected to Spain; for he hates and envies his Spanish brethren who leave him only the very worst appointments, and treat him with contempt.

I rode from Batu to Nabua over a good road in half an hour. The country was flat, with rice-fields on both sides of the road; but, while in Batu the rice was only just planted, in Nabua it already was almost rine. I was unable to obtain any explanation of this incongruity, and know not how to account for such a difference of climate between two hamlets situated in such close proximity to one another, and separated by no range of hills. The inhabitants of both were ugly and dirty, and were different in these respects from the Tagalogs. Nabua, a place of 10.875 inhabitants, is intersected by several small streams, whose waters, pouring down from the eastern hills, form a small lake, which empties itself into the river Bicol. Just after passing the second bridge beyond Nabua the road, inclining eastwards, wends in a straight line to Iriga, a place lying to the south-west

of the volcano of the same name.

I visited a small settlement of pagans situated on the slope of the volcano. The people of the plains call them indifferently Igorots, Cimarrons, Remontados, Infieles, or Montesinos. None of these names, however, with the exception of the two last, are appropriate ones. The first is derived from the term applied in the north of the Island to the mixed descendants of Chinese and Filipino parents. The word Cimarron (French, marrow) is borrowed from the American slave colonies, where it denoted negroes who escaped from slavery and lived in a state of freedom; but here it is applied to natives who prefer a wild existence to the comforts of village life, which they consider are overbalanced by the servitude and bondage which accompany them. The term

Remontado explains itself, and has the same signification as Cimarron. As the difference between the two states-on account of the mildness of the climate, and the case with which the wants of the natives are smolied -is far less than it would be in Europe, these self-constituted exiles are more frequently to be met with than might he sumposed: the cause of their separation from their fellowmen sometimes being some offence against the laws, sometimes annoying debts, and sometimes a mere aversion to the duties and labors of village life. Every Filipino has an innate inclination to abandon the hamlets and retire into the solitude of the woods, or live isolated in the midst of his own fields; and it is only the village prisons and the priests-the salaries of the latter are proportionate to the number of their parishioners-that prevent him from gradually turning the puchles into visitas." and the latter into ranchos. Until a visit to other ranches in the neighborhood corrected my first impression. I took the inhabitants of the slopes of the Iriga for cross-breeds between the low-landers and negritos. The color of their skin was not black, but a dark brown, scarcely any darker than that of Filipinos who have been much exposed to the sun; and only a few of them had woolly hair. The norritos whom I saw at Angat and Mariveles knew nothing whatever about agriculture, lived in the open air, and supported themselves upon the spontaneous products of nature; but the half-savages of the Iriga dwell in decent huts, and cultivate several vecetables and a little sugar-cane. No pure neuritos, as far as I could ascertain, are to be met with in Camarines. A thickly-populated province. only sparsely dotted with lofty hills, would be ill-suited for the residence of a nomedic hunting race ignorant of agriculture.

A strite is a small baselet or village with no priest of its own, and dependent upon its largest neighbor for its religious estimaterations. The randox on the Iriga are very accessible, and their

diesent

inhabitants carry on a friendly intercourse with the lowlanders: indeed, if they didn't, they would have been long ago exterminated. In spite of these neighborly communications, however, they have preserved many of their own primitive manners and customs. The men go about naked with the exception of a cloth about the loins: and the women are equally unclad, some of them perhaps wearing an apron reaching from the hip to the knee.\* In the larger ranchus the women were decently clad in the usual Filipino fashion. Their household belongings consisted of a few articles made of hambon a few calabashes of coconut-shell, and an earthen cookingpot, and bows and arrows. These latter are made very carefully, the shaft from reeds, the point from a sharecut bamboo, or from a palm-tree, with one to three shere points. In pig-hunting iron-pointed poison arrows are used. Although the Igorots are not Christians, they

Crusicas

decorate their buts with crucifixes, which they use as talismans. If they were of no virtue, an old man remarked to me, the Spaniards would not employ them so numerously.† The largest rancho I visited was nominally under the charge of a captain, who, however, had little real power. At my desire he called to some naked boys idly squatting about on the trees, who required considerable persuasion before they obeyed his summons; but a few small presents-brazen carrings and combs for the women, and cigars for the men-soon put me on capital terms with them

Mt. Irina

After a vain attempt to reach the top of the Iriga volcano I started for Buhi, a place situated on the \* Planfette contions that the female musicism of the King of Cebs ware quite saked, or only covered with an sayen of lark. The lastes of the Court wise centest with a half, a sharp clock, and a cittle around the wise. I Perhaps the same reason induced the Chincus to purchase cracitizes at the

1. Perturps the same reason induced the Chinese to nurchose crucibies at the time of their first intercourse with the Perturpless; for Piguletta says: "The Chinese new wide, went clother, and cut from tooles. They also possess crucibies but it is difficult to say why or winter they goe chara;"

after leaving Iriga I reached a soot where the ground sounded hollow beneath my horse's feet. A succession of small hillocks, about fifty feet high, bordered each side of the road; and towards the north I could perceive the large crater of the Iriga, which, in the distance, appeared like a truncated cone. I had the curiosity to ascend one of the hillocks, which, seen from its summit, looked like the remains of some former crater. which had probably been destroyed by an earthquake and split up into these small mounds.

When I got to Buhi the friendly priest had it proclaimed dismission. by sound of drum that the newly-arrived strangers wished to obtain all kinds of animals, whether of earth, of air, or of water; and that each and all would be paid for in cash. The natives, however, only brought us moths, centingdes, and other vermin, which, besides enabling them to have a good stare at the strangers. they loped to turn into cash as extraordinary curiosities.

The following day I was the spectator of a gorgeous A shook procession. First came the Spanish flag, then the village kettle-drums, and a small troop of horsemen in short jackets and shirts flying in the wind, pext a dozen musicions, and finally, as the principal figure, a man carrying a crimson silk standard. The latter individual evidently was deeply conscious of his dignified position, and his countenance eloquently expressed the quantity of pelm wine he had consumed in honor of the occasion. He sat on his horse dressed out in the most absurd manner in a large cocked hat trimmed with colored paper instead of gold lace, with a woman's cape made of paper outside his coot, and with short, tight-fitting vellow breeches and immense white stockings and shoes. Both his coat and his breeches were liberally ornamented with paper trimmings. His steed, led by a couple of calezas, was

appointed with similar trappings. After marchine through all the streets of the village the procession came

to a halt in front of the church This festival is celebrated every year in commemora-

\* One like here emitted - o

Lake tout

tion of the concession made by the Pope to the King of Spain permitting the latter to appropriate to his own use certain revenues of the Church. The Spanish Throne consequently enjoys the right of confering different indulgences, even for serious crimes, in the name of the Holy See. This right, which, so to speak, it acquired wholesale, it sells by retail to its customers (it formerly disposed of it to the priests) in the celano, and together with its other monopolies, such as tobacco. brandy, lottery tickets, stamped paper, etc., all through the agency of the priests; without the assistance of whom very little business would be done. The receipts from the sale of these indulgences have always been very fluctuating. In 1819 they amounted to \$15,930; in 1839 to \$36.390; and in 1860 they were estimated at \$58,954. In the year 1844-5 they rose to \$292,115. The cause of this large increase was that indulgences were then rendered compulsory; so many being alloted to each family, with the assistance and under the superintendence of the priests and tax-collectors who received a commission of five and eight per cent on the gross amount collected.\*

The Lake of Buhi (300 feet above the sea-level) presents an extremely picturesque appearance, surrounded as it is on all sides by hills fully a thousand feet high; and its western shore is formed by what still remains of the Iriga volcano. I was informed by the priests of the neighboring hamlets that the volcano, until the commencement of the seventeenth century, had been a closed cone, and that the lake did not come into

existence till half of the mountain fell in, at the time of its great emption. This statement I loude confirmed in the pages of the Edulad Goppylice.—"On the Fourth of January, 1641—a memorable day, for on that date all the known volumens of the Archipelago began to the fourth of the confirmed of the Archipelago began to the confirmed the fourth of the confirmed that the

Perry, in the Minniera de L'Acutinie de Dija, remonstration another cutthea which took piec in Camarinera in 1928: "In 1628, secording to trustworthy reports, fourteen different sibecds of entrapsiae occurred to the control of the province of Camarines. Many many control of the province of Camarines. Many buildings with the cartifuguite rent sample there is made such an immense quantity of water that the whole neighborhood was flooded, trees were torn up by the roots, and, in one hour, from the senabre all plains roots, and, in one hour, from the senabre all plains when it was not considered the senabre all plains to the control of the control

\* April Carmines success estate obten the quanta deles contenuines, the figure testiscosis remarkature and make testis medical entre. Departmenten medical misses terrandosses immente medical misses. Departmenten medical retrains immente histor, see Vasantes vi excesses embores per se picks, Pie el locares nocesparent taquosis, nor hampe per filla i lacerculara separente. Accidit hos anno 1628—N. Farchire Vierenbergius, Heisrid Attorn, Ha. Vil., 31. Annoren, 1635.

The data of the Estado Geografico are apt to create distrust as the official report on the great earthquake of 1641 describes in detail the eruptions of three volcanoes, which happened at the same time fof these two were in the South of the Archipelago and one in Northern Luzon) while Camarines is not mentioned at all. This suspicion is further strengthened by the fact that the same author (Nierembergius) whose remarks on the eruptions of 1628 in Camarines are quoted, gives in another book of his a detailed report on the events of 1641 without mentioning this province. If one considers the indifference of the friers toward such events in Nature, it is not improbable that the eruptions of 1641 when a mountain fell in in Northern Luzon and a lake took its place, has been transferred on the Iriga. To illustrate the indifference it may be mentioned that even the padres living at the foot of the Albay could not agree upon the dates of its very last eruptions When I was at Tambong, a small hamlet on the shore

elimbias.

deather attenue of the lake belonging to the parochial district of Buhi. I made a second unsuccessful attempt to reach the highest point of the Iriga. We arrived in the evening at the southern point of the crater's edge (1,041 meters above the level of the sea by my barometrical observation), where a deep defile prevented our further progress. Here the Igorots abandoned me, and the low-landers refused to bivouse in order to pursue the journey on the following day; so I was obliged to return. Late in the evening, after passing through a coco plantation, we reached the foot of the mountain and found shelter from a tempest with a kind old woman: to whom my servants lied so shamelessly that, when the rain had abated, we were, in spite of our failure, conducted with torches to Tambong, where we found the palm-grove

The second secon

round the little hamlet magically illuminated with bright bonfires of dry coconut-leaves in honor of the Conquistadores del Iriga: and where I was obliged to remain for the night, as the people were too timorous

or too lazy to cross the rough water of the lake Here I saw them preparing the fiber of the pine-apple Printed for for weaving. The fruit of the plants selected for this nurpose is generally removed early; a process which causes the leaves to increase considerably both in length and in breadth. A woman places a board on the ground. and upon it a pine-apple-leaf with the hollow side upwards. Sitting at one end of the board, she holds the leaf firmly with her toes, and scrapes its outersurface with a potsherd; not with the sharp fractured edge but with the blunt side of the rim; and thus the leaf is reduced to rags. In this manner a stratum of coarse longitudinal fiber is disclosed, and the operator, placing her

thumb-nail beneath it, lifts it up, and draws it away in a compact strip: after which she scrapes again until a second fine layer of fiber is laid bare. Then, turning the leaf round, she scrapes its back, which now lies upwards, down to the layer of fiber, which she seizes with her hand and draws at once, to its full length, away from the back of the leaf. When the fiber has been washed, it is dried in the sun. It is afterwards combed, with a suitable comb, like women's hair, sorted into four classes, tied together, and treated like the fiber of the Inpi. In this crude manner are obtained the threads

by experts the finest in the world. Two shirts of this kind are in the Berlin Ethnographical Museum (Nos. 291 and 292). Better weven samples are in the Gewerbe Museum of Trade and Commerce. In the Philippines, where the fineness of the work is best

in

for the celebrated web nipis de Piña, which is considered file.

understood and appreciated, richly-embroidered costumes of this description have fetched more than \$1,400 each.\*

Rain perents another arount At Bubi, which is not sufficiently sheltered towards, the north-east, it mined almost as much as at Daraga, I had found out from the Igorots that a path could be forced through the tail canes up to the summit; the continual rain prevented me; so I resolved to cross the Maliano, returning along the coast to my quaters duther, freshly equipped, descend the river Bicol as far an Naga.

Montainere arres prises

Before we parted the Igorots prepared for me some arrow poison from the bark of two trees. I happened to see neither the leaves nor the blossoms, but only the bark. A piece of bark was beaten to pieces, pressed dry, wetted, and again pressed. This was done with the bare hand, which, however, sustained no injury. The juice thus extracted looked like pea-soup, and was warmed in an earthen vessel over a slow fire. During the process it coagulated at the edges; and the coagulated mass was again dissolved, by stirring it into the boiling fluid mass. When this had reached the consistency of syrup, a small quantity was scraped off the inner surface of a second piece of bark, and its juice squeezed into the vessel. This juice was a dark brown color. When the mass had attained the consistency of a thin jelly. it was scraped out of the pot with a chip and preserved on a leaf sprinkled with ashes. For poisoning an arrow they use a piece of the size of a hazel-nut, which, after being warmed, is distributed uniformly over the broad iron point; and the poisoned arrow serves for repeated use.

use.

At Port William Calcutts, experiments have proved the estimating indicates of the rice-argie face. A cable cital continuous is circumfacelet was not torn sample; such a force of 2,850 tiliogrammes had been applied to it.— Report of the Jung, Lendon International Endone.

At the end of November I left the beautiful lake of Sun pier Buhi, and proceeded from its eastern angle for a short distance up the little river Sapa,\* the alluvial deposits of which form a considerable feature in the configuration of the lake. Across a marshy meadow we reached the base of the Malinao or Buhi mountain, the slippery clay of the lower slope merging higher up into volcanic sand. The damp undergrowth swarmed with small leeches; I never before met with them in such numbers. Acoustic These little animals, no stouter when streched out than a linen thread, are extraordinarily active. They attach themselves firmly to every part of the body, penetrating even into the nose, the ears, and the eyelids, where, if, they remain unobserved, they gorge themselves to such excess that they become as round as balls and look like small cherries. While they are sucking no pain is felt; but afterwards the spots attacked often itch the whole day long.† In one place the wood consisted for the most part of fig-trees, with bunches of fruit quite Parters six feet in length hanging from the stems and the thicker branches; and between the trees grew ferns, aroids, and orchids. After nearly six hours' toil we reached the pass (841 meters above the sea level), and descended the eastern slope. The forest on the eastern side of the mountain is still more magnificent than that on the west. From a clearing we obtained a fine view of the sea, the Island of Catanduanes, and the plain of Tabaco. At sunset we reached Tibi, where I quartered myself in Press the prison. This, a tolerably clean place enclosed with as said

strong hamboos, was the most habitable part of a long

\* Succession shallow.

"To the transationsy shaulators of these concluins in Shidon, Hocker

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shed which supplied the place of the tribunal destroyed in a storm two years before. At Tibi I had an opportunity of sketching Mount Malinao (called also Buhi and Takit), which from this side has the appearance of a large volcano with a distinct crater. From the lake of Buhi it is not so clearly distinguishably

ibo kat ring. Not far from Tible, exactly north-reast of Malisso, we found a small hot spring-called Igaon. In the middle of a plot of turf encircled by trees was a hore sprice of oral form, nearly a hundred poses long and seventy wide. The whole space was covered with stones, rounded by attriction, as large as a mark head and larger. Here as the spring of the spring of the property of the pro

Nagleybeng Hilicinus oprings. From here I visited the stalectic springs, not for dataset, of Negleghenge. 1 had expected to see a realearcous Goustain, but found the most magnificent masses of siles of shinker variety of form; shallow cones with opinarical summits, pyramidel flights of steps, round of the control of the control of the control of the control one spot, demosted or for the control of the control paces in breadth and about five laundered in length, sen, with the exception of a few places overgrown with unit covered with a crust of silicious dross, which here and become proposed of the control of the control of the conposed proposed of the control of the control of the problem up into one of the control of the control of the water containing silice was forcine itself out of the

<sup>.</sup> Gernelli Cereri has already mentioned there

ground, spreading itself over the surface and depositing a crust, the thickness of which depended on its distance from the center point. In this manner, in the course of time, a very flat cone is formed, with a basin of boiling water in the middle. The continuous deposit of dross contracts the channel, and a less quantity of water overflows, while that close to the edge of the having evaporates and deposits a quantity of fine silicious earth; whence the upper portion of the cone not only is steeper than its base, but frequently assumes a more cylindrical form, the external surface of which on account of the want of uniformity in the overflow, is ribbed in the form of stalactites. When the channel becomes so much obstructed that the efflux is less than the evaporation. the water ceases to flow over the edge, and the mineral dress, during the continual cooling of the water, is then deposited, with the greatest uniformity, over the inner area of the basin. When, however, the surface of the water sinks, this formation ceases at the upper portion of the basin; the interior wall thickens; and, if the channel be completely stopped up and all the water evaporated, there remains a bell-shaped basin as even as if excavated by the hand of man. The water now seeks a fresh outlet, and bursts forth where it meets with the least obstruction, without destroying the beautiful cone it has already erected. Many such examples exist. In the largest cones, however, the vapors generated acquire such power that, when the outlet is completely stopped up, they break up the overlying crust in concentrically radiating flakes; and the water, issuing anew copiously from the center deposits a fresh crust, which again, by the process we have just described is broken up into a superimposed layer of flakes. In this manner are formed annular layers, which in turn are gradually covered by fresh deposits from the overIsowing water. After the pyramid of layers is completed and the oudest stopped up, the water sometimes break forth on the slope of the same coner; a second cone is been formed mere the first, on the same base. In the same the same that the same has the same base in the same base in the same base. In the same base is a same base of which the same base is a same base of which the same base is a same base of which the same base has a same base by the same base of the same base of

The wonderful conformations of the red cone are indeed astonishing, and hardly to be paralleled in any other quarter of the world.\*

On my second journey in Comurines, which I undertook in February. I went by water from Polongui, past Bata, as far as Naga. The second from Polongui, past Bata, as far as Naga. The second from the trust into the southeastern corner of the late of the help of the second from the control and the Biolo River, and flows in a nethod waterly direction as far as the Bay of San Mignel. It forms the medium of a not incondistrable trade between Albay and Cannarines, particularly in rices of which the supply grown in the former province does not suffice for the population, who consume the superfluid yof Cannarines. The rice is conveyed in large boats up the river as far as Quinali, and thence trans-

ported further on in carabao carts; and the boats return empty. During the dry season of the year, the breadth of the very tortuous Bicol, at its mouth, is a little over sixty feet, and increases but very gradually. There is considerable variety of vegetation upon its banks, and in animal life it is highly attractive. I was narticularly struck with its numerous monkeys and water-fowl. Of the latter the Plotus variety was most Posts abundant, but difficult to shoot. They sit motionless on the trees on the bank, only their thin heads and necks, like those of tree-snakes, overtopping the leaves. On the approach of the boat they precipitate themselves hastily into the water; and it is not until after many minutes that the thin neck is seen rising up again at some distance from the spot where the bird disappeared. The Plotus appears to be as rapid on the wing as it is in swimming and diving.

In Naga, the chief city of South Camarines, I alighted to at the tribunal, from which, however, I was immediated to at the tribunal, from which, indexer; I was immediated properties of the properties of the district—who is fleamed for his hospitality far beyond the limits of his province—to his house, where I was loaded with civilities and flevers. This universally belowed gentleman put and flevers. This universally belowed gentleman put and flevers are the universally belowed gentleman put called the properties of the propertie

Naga is the seat of a bishopric and of the provincial Name

government. In official documents it is called Nuevo Caccers, in home of the Caption-General, D. Fr. de Sande, a native of Caccers, who about 1578 founded Naga (the Spanish town) close to the Fillipno village. At the beginning of the seventeenth century it numbered nearly one hundred Spanish inhabitants: at the present time it hardly boosts a dozen. Murillo Velarde remarks (kill; 272), in contrasts to the state of things in America, that of all the towns founded in the Philippines.

America, that of all the fowns tounted in the Philippine, with the exception of Manila, only the skeletons, the same without an extension of the same without the same without the same without the same to the same to the same to the same to the present the same to the present the same to the present the palastation, and consequently proper sattlers, have been wanting. Formerly Noga was the principal toom of the whole of that district of Lucan lying to the east of Tayabas, which, on account of the increased population, was divided into the three provinces of Morth and South Camarines and Albay. The boundaries of these governmental districts, those because Albay and South Camarines more especially, the same to the same

and used the state of the state

and flowly obler pleusidistics from their neighbors, the throat of the south and cast.

The Blooks are found only in this district, and in a few lained by the production of the control in the south of the compensation is to be obtained from the comprehensive bits conducid intoiries of the Spanish models, the throat the Spanish models, the spanish models of the spanish and model of the provinces. Their speech is middle up the spanish models of the spanish and more distant provinces. Their speech is middle up the spanish models of the spanish mod

\* Arease thinks that the medical areals of the Chinese redship contains aformation reliable to the artitioned of the prevent inhabitaria of Mostlis, at that people had early intercoverse with the Archipelans.

120 manners and customs, to be a half-breed between these two races. Physically and mentally they are inferior to the Tagalogs, and superior to the inhabitants of the Bird eastern Bisayan Islands. Bicol is spoken only in the Propage two Camarines, Albay, Luzon, the Islands of Mashete Burias, Ticao, and Catanduanes, and in the smaller actioining islands. The inhabitants of the volcanic mountain Isarog and its immediate neighborhood speak it in the greatest purity. Thence towards the west the Bicol dialect becomes more and more like Tagalog and towards the east like Bisavan, until by degrees. even before reaching the boundaries of their ethnographical districts, it merges into these two kindred

languages

In South Camarines the sowing of the rice in beds 800 begins in June or July, always at the commencement of the rainy season; but in fields artificially watered. earlier, because thus the fruit ripens at a time when, the store in the country being small, its price is high, Although the rice fields could very well give two crops yearly, they are tilled only once. It is planted out in August, with intervals of a hand's-breadth between each row and each individual plant; and within four months the rice is ripe. The fields are never fertilized. and but seldom ploughed; the weeds and the stubble being generally trodden into the already soaked ground by a dozen carabaos, and the soil afterwards simply rolled with a cylinder furnished with sharp points, or loosened with the harrow (sored). Besides the agricultural implements named above, there are the Spanish hatchet (azadou) and a roke of bamboo (kaa-kan) in use. The horsest is effected in a peculiar manner, The rice which is somest ripe is cut for ten per cent, that is, the laborer receives for his toil the tenth bundle

for himself. At this time of year rice is very scarce,

fields, however, that ripen, the higher become the reapper's wages, riming to twenty, thirty, forty, even this per cent; indeed, the executive sometimes consider it to be necessary to force the people to do harvest by composal punsishment and imprisonment, in order to prevent a large portions of the corp form rotting on the stake. Neverthelens, in very finitely town a part of the harvest when the composal properties of the composal part of the harvest and a peculsary-formed knife, or, failing such, with the sharp-edged flap of a muses! found in the diriches of the rick-fields, which can be not by to stoop to pick up.

A quiñan of the best rice land is worth from sixty to one hundred dollars (\$5.50 to \$0 per nere). Rice fields on rising grounds are dearest, as they are not exposed to devastating floods as are those in the plain, and may be treated so as to issure the ripening of the fruit at the time when the highest price is to be obtained. A gunta of rice is sufficient to plant four topouses

the time when the highest price is to be obtained.

A grant of free is sufficient to plant four fugure.

(I topon = 1 loan), from which 100 meaning (handle) are gathered, each of which yields half a ganta of fice.

The old ganta of Naga, however, being equal to a madern ganta and a half, the produce may be calculated at 75 census per quildon, about 9½ hushels per acref 15 census per quildon, about 9½ hushels per acref and produce of a quildon; but that is an exaggeration. The whole yellow finds certainly variet very much; but, when yellow the control of t

predamin.

The barrent.

<sup>\*</sup> Probably the Acodasta Parparent, according to V. Mortens.
† 1 panis = 3 liters. 1 quites = 100 laters = 2.79495 inctares = 6.89 acres.
1 column = 25 acutos.

average. In Java the harvest, in many provinces, amounts to only 50 cavanes per quiñon; in some, indeed, to three times this amount; and in China, with the most careful culture and abundant manure, to 180 cabanes.\* Besides rice, they cultivate the canole (sweet

potato, Convolvulus batatas). This flourishes like a Suni weed; indeed, it is sometimes planted for the purpose of Project. eradicating the weeds from soil intended for coffee or cacao. It spreads out into a thick carpet, and is an inexhaustible storehouse to its owner, who, the whole year through, can supply his wants from his field. Gabi (Caladium), Ubi (Dioscores), maize, and other kinds of grain, are likewise cultivated. After the rice harvest the carabaos, horses, and bul. Carle and

locks, are allowed to graze in the fields. During the rice culture they remain in the gonomics, cane-fields which arise in places once cultivated for mountain-rice and afterwards abandoned. (Gogo is the name of a cane 7 to 8 feet high, Saccharum sp.). Transport then is almost impossible, because during the rainy season the roads are impassable, and the cattle find nothing to eat. The native does not feed his beast, but allows it to die when it cannot support itself. In the wet season of the year it frequently happens that a carabao falls down from starvation whilst drawing a cart. A carabao costs from \$7, to \$10; a horse \$10 to \$20; and a cow \$6 to \$8. Very fine horses are valued at from \$30 to \$50, and occasionally as much as \$80; but the native horses are not esteemed in Manila, because they have no stamina. The bad water, the bad hav, and the great heat of the place at once point out the reason; otherwise it would be profitable to export horses in favorable seasons to Manila, where they would fetch twice their

<sup>\*</sup> Scherger, Mincellaneous Information,

value. According to Morga, there were neither horses nor assess on the Island until the Suaniards imported

nor asses on the Island until the Spaniards imported them from China and New Spain. They were at its small and victous. Horses were imported also from Japan, "not swift but powerful, with large heads and thick manes, looking like Friesland horses;" and the breed improved rapidly. Those born in the country, mostly cross-breeds, drive will.

montly cross-breefs, drive well.

Black castle are generally in the lands of a fee individuals; some of whom in Camarines possess from 1000 to 3000 heads but they are hardly saleshie in the province, although they have been exported profitably province are small but make good beef. They are never employed for labor, and the cows are not milked. The Pilipitous, who generally feed on fish, reads, unusued, and wild herbs together with rice, prefer the flesh of the carribot to that of the ext but they act it only or facts.

The old race of sheep, imported by the Spanisch previous to this century, still floatines and is easily propagated. Those eccasionally brought from Shanghal and Australiar are considered to be deficient in endorance, unfraitful, and generally short-lived. Muston is prosu-shle every day in Manilai: in the interior, however, at least in the eastern provinces, very rarely; although the control of the property of the control of the story of the control of the vibro which the complete for the young lambs, which they complain are term to nicee by the dops

Black carri

Steep

<sup>8.</sup> Mere than one hundred years later, Fasher Unifordine versus "The Spenington have brought two, known, and there does namerical but these advantagement lay three on account of the demoners and isometical but these advantagements lay three on account of the demoners and isometical work."—"Cutture layer and the layer of the layer layer, and or makes the layer of the layer of the layer layer, and are makes the layer of the layer layer, and are makes the layer of the layer layer, and are makes the layer of the layer layer, and are makes the layer of the layer layer, and are makes the layer of the layer layer, and are makes the layer of the layer layer, and are makes the layer of the layer layer of the layer layer, and are makes the layer layer

when they wander about free. The sheep appear to have been acclimatized with difficulty. Morga says

that they were brought several times from New Spain. but did not multiply; so that in his time this kind of domestic animal did not exist. Pork is eaten by wealthy Europeans only when the hog has been brought un from sain-

the litter at home. In order to prevent its wandering away, it is usually enclosed in a wide meshed cylindrical

hamper of bamboo, upon filling which it is slaughtered. The native logs are too nauseous for food, the animals maintaining themselves almost entirely on ordure. Crawfurd observes that the names of all the domestic Guess of

animals in the Philippines belong to foreign languages. Absory from

Those of the dog, swine, goat, carabao, cat, even of the fowl and the duck, are Malay or Javanese; while those of the horse, ox, and sheep, are Spanish. Until these animals were first imported from Malaysia, the aborigines were less fortunate in this respect than the Americans. who at least had the alpaca, llamanda, vicuña. The

names likewise of most of the cultivated plants, such as rice, yams, sugar-cane, cacao and indigo, are said to be Malay, as well as those for silver, copper, and tin. Of the words relating to commerce, one-third are Malay; to which belong most of the terms used in trades, as well

as the denominations for weights and measures, for the calendar-so far as it exists-and for numbers, besides the words for writing, reading, speaking, and parrative, On the other hand, only a small number of terms which refer to war are borrowed from the Malay.

Referring to the degree of civilization which the Phil-Assist ippines possessed previous to their intercourse with the

Malays, Crawfurd concludes from the purely demestic words that they cultivated no corn, their vegetable

food consisting of batata (?) and banana. They had not a single domestic animal; they were acquainted with

iron and gold, but with no other metal, and were clothed in stuffs of cotton and alpaca, woven by themselves. They had invented a peculiar phonetic alphabet; and their religion consisted in the belief in good and evil spirits and witches, in circumcision, and in somewhat of divination by the stars. They therefore were superior to the inhabitants of the South Sea, insemuch as they possessed gold, iron, and woven fabrics, and inferior to them in that they had neither dog, pig, nor fowl.

Assuming the truth of the above sketch of pre-Progress ander Christian culture, which has been put together only with the help of defective linguistic sources, and comparing it with the present, we find, as the result, a considerable progress, for which the Philippines are indebted to the Spaniards. The influence of social relations has been already exhibited in the text. The Spaniards have imported the horse, the bullock, and the sheep; maize, coffee, sugar-cane, cacao, sesame, tobacco, indigo, many fruits, and probably the batata, which they met with in Mexico under the name of camotli.\* From this circumstance the term camote, universal in the Philippines, appears to have had its origin. Crawfurd, indeed, erroneously considering it a native term. According to a communication from Dr. Witmack, the opinion has lately been conceived that the batata is indigenous not

only to America, but also to the East Indies, as it has two names in Sanscrit, sharkarakanda and ruktalos. Allert Landon and all With the exception of embroidery, the natives have made but little progress in industries, in the weaving and the plaiting of mats; and the handierafts are entirely

Discount at ....

The exports consist of rice and abaca. The province reperiol. exports about twice as much rice as it consumes; a large

carried on by the Chinese

<sup>\*</sup> Compare Hernandez, Opera Osasia; Tompormula, Manarchia Italian.

quantity to Albay, which, less adapted for the cultivation of rice, produces only abaca; and a fair share to North Camarines, which is very mountainous, and little fertile. The rice can hardly be shipped to Manila as there is no high road to the south side of the province. near to the principal town, and the transport by water from the north side, and from the whole of the eastern portion of Luzon, would immediately enhance the price of the product. The imports are confined to the little that is imported by Chinese traders. The traders are Giorn almost all Chinese, who alone possess shops in which securelize clothing materials and woolen stuffs, partly of native and partly of European manufacture, women's embroidered slippers, and imitation jewelry, may be obtained. The whole amount of capital invested in these shops certainly closs not exceed \$200,000. In the remaining pueblos of Camarines there are no Chinese merchants; and the inhabitants are consequently obliged to get their supplies from Nage

The land belongs to the State, but is let to any one Land for who will build upon it. The usufruct passes to the children, and ceases only when the land remains unemployed for two whole years: after which it is competent

Haure.

for the executive to dispose of it to another person. Every family possesses its own house; and the young husband generally builds with the assistance of his friends. In many places it does not cost more than four or five dollars, as he can, if necessary, build it himself free of expense, with the simple aid of the forestknife (bula), and of the materials to his hand, bamboo, Spanish cone, and palm-leaves. These houses, which are always built on piles on account of the humidity of the soil, often consist of a single shed, which serves for all the uses of a dwelling, and are the cause of great laxity and of filthy habits, the whole family sleeping In general it may be said that every pueblo supplies

Ashte en

its own necessaries, and produces little more. To the indodent native, especially to him of the eastern provinces, the village in which he was born the leaves it only under the most pressing circumstant with the leaves it only under the most pressing circumstant with the word practice of the political would place great obstacles in the way of gratifying the desire for travel, generated by that oppressive impact. The Philipin casts three times a day—about 7 a. m.,

Mesta.

12, and at 7 or 8 in the evening. Those engaged in severe labor consume at each meal a chupa of rice; the common people, half a chupa at breakfast, one at midday, and half again in the evening, altogether two chupss. Each family reaps its own supply of rice, and preserves it in barns, or buys it winnowed at the market; in the latter case purchasing only the quantity for one day or for the individual meals. The average retail price is 3 cuartos for 2 chupas (14 chupas for 1 real). To free it from the husk, the quantity for each single meal is rubbed in a mortar by the women. This is in accordance with an ancient custom; but it is also due to the fear lest, otherwise, the store should be too quickly consumed. The rice, however, is but half cooked; and it would seem that this occurs in all places where it constitutes an essential part of the sustenance of the people, as may be seen, indeed, in Spain and Italy-Salt and much Spanish pepper (considerm) are eaten

as condiments; the latter, originally imported from America, growing all round the houses. To the common cooking-salt the natives prefer a so-called rock-salt. which they obtain by evaporation from sea-water previously filtered through ashes; and of which one chinanta (12 lbs. German) costs from one and one-half to two

reals. The consumption of salt is extremely small. The luxuries of the Filipinos are buyo\* and cigars- Manual a cigar costing half a centavo, and a buyo much less. Cigars are rarely smoked, but are cut up into pieces. and chewed with the buyo. The women also chew humo and tobacco, but, as a rule, very moderately; but they do not also stain their teeth black, like the Malays; and the young and pretty adorn themselves assiduously with veils made of the areca-nut tree, whose stiff and closely packed parallel fibers, when cut crosswise, form excellent tooth-brushes. They bathe several times daily, and surpass the majority of Europeans in cleanliness. Every native, above all things, keeps a fighting-

for cock-fighting. as follows:

For cooking purposes an earthen pot is used, costing between 3 and 10 cuartos; which, in cooking rice, is closed firmly with a banana-leaf, so that the steam of a very small quantity of water is sufficient. No other cooking utensils are used by the poorer-classes; but those better off have a few cast-iron pans and dishes. In the smaller houses, the hearth consists of a portable earthen pan or a flat chest, frequently of an old cigar-

cock: even when he has nothing to eat, he finds money

The details of domestic economy may be summarized #eartheld n.Snies.

Buys is the name given in the Philippines to the preparation of betri satisfact of extense. A leaf of betri proper (Chardrab betti), of the item said size of a been sentent over with a sent place of the test and of a leaf of the sentent over with a sent place of the said from a first place of a leaf of the sentence of the sentenc

chest full of sand, with three stones which serve as a tripod. In the larger houses it is in the form of a bedstead. filled with sand or ashes, instead of a mattress. The water in small households is carried and preserved in thick bamboos. In his bolo (forest-knife), moreover, every one has an universal instrument, which he carries in a wooden sheath made by himself, suspended by a cord of loosely-twisted bast fibers tied round his body. This, and the rice-mortar (a block of wood with a suitable cavity), together with pestles and a few baskets, constitute the whole of the household furniture of a poor family; sometimes a large snail, with a rush wick, is also to be found as a lamp. They sleep on a mat of pandanus (fan-palm, Cargula), when they possess one; if not, on the splittings of bamboo, with which the house is floored. By the poor oil for lighting is rarely used:

bought in the market for balf a cuarto Their clothing requirements I ascertained to be these: A woman wears a camisa de guinára (a short shift of abacá fiber), a patadion (a gown reaching from the hip to the ancles), a cloth, and a comb. A piece of guinare, costing I real, gives two shifts; the coarsest patadion costs 3 reals; a cloth, at the highest, 1 real; and a comb, 2 cuartos; making altogether 4 reals, 12 cuartos. Women of the better class wear a camisa, costing between 1 and 2 r., a patadion 6 r., cloth between 2 and 3 r., and a comb 2 cu. The men wear a shirt, 1 r., hose, 3 r., hat (language) of Spanish cane, 10 cu., or a sulared (a large rain-hat, frequently decorated), at least 2 r. - often, when ornamented with silver, as much as \$50. At least three, but more commonly four, suits are worn out yearly; the women however, taking care to weave almost the whole quantity for the family themselves

but torches of resin, which last a couple of days, are

Foreitare,

Clething

The daily wages of the common laborer are 1 real, Fagn, without food; and his hours of work are from 6 to 12, and from 2 to 6 o clock. The women, as a rule, perform no field labor, but plant out the rice and assist in the reaping; their wages on both occasions being equal to those of the men. Wood and atone-cutters receive 1.5, nee rday, and callers 1,15°.

The Trecio is a pretty general contract in the cultiva. \*bookbass.\* tion of the land. The owner simply lets arable land for the third part of the crop. Some mestizes possess several pieces of ground; but they are seldom connected together, as they generally acquire them as mortages for sums

bearing but a small proportion to their real value.

Under the head of earnings I give the income of a flowly income of a flowl

small animal. The that Garri daily one rail, and the the properties of the control of the properties of the properties of the properties of the properties of the days, costs half a roal in weaver' ungap). The most skilled femalls weaver of the fine stuffs obtain twelvereals per piece but it takes a month to weaver; and the month, on account of the minerous boly-days, must be calculated at the most an equal to twenty-four weak-ing days; the consequently earn one-fourth real per day and her food. For the initiating of the fibers of the days and her food. For the initiating of the fibers of the days and the real of the fibers of the days and the real of the fibers of the days and the real of the fibers of the days and the real of the fibers of the days and the real of the fibers of the days and the real of the fibers of the days of the fibers of the fibers of the days of the fibers of t

In all the pueblos there are schools. The schoolmaster seads is paid by the Government, and generally obtains two collars per month, without band or lodging. In large pueblos the solary amounts to three dollars and a half; out of which an assistant must be paid. The schools are under the supervision of theccelesiastics of the place.

are under the supervision of theecelesiastics of the place. Reading and writing are taught, the writing copies being Spanish. The teacher, who has to teach his scholars Spanish exactly, does not understand it him

Some priests do not permit boys and girls to attend the same school; and in this case they pay a second teacher, a female, a dollar a month. The Filipinos learn arithmetic very quickly, generally aiding themselves , by the use of mussels or stones, which they pile in little heaps before them and then count through,

Harrises age. The women seldom marry before the fourteenth year, twelve years being the legal limit. In the church-register of Polángui I found a marriage recorded (January, 1837) between a Filipino and a Filipina having the ominous name of Hilaria Concepción, who at the time of the performance of the marriage ceremony was, according

to a note in the margin, only nine years and ten months old. Frequently people live together unmarried, because they cannot pay the expenses of the ceremony." Foress's mark. European females, and even mestizas, never seek husbands amongst the natives. The women generally

are well treated, doing only light work, such as sewing.

write well

<sup>\*</sup> Twelve lines are emitted have.--

weaving, embroidery, and managing the household; while all the heavy labor, with the exception of the beating of the rice, falls to the men.\*

Instances of longevity are frequent, amongst the 4-network Philipsion, particularly in Camanisten. The District of Manulin, of March 13th, 1866, mentions an old man in Darriga (Albay) whom? I here well—Junn Jacob, born in 1744, married in 1764, and a widower in 1845. He held many public potts up to 1846, and had thirteen children, of whom five are living. He has one hundred and seventy-frest descendants, and one, at one hundred and twenty-two years of age, is still vigerous, with good city and relate. Externe succious was administered

The first excretion of a new-born child is carefully "matter and preserved, and under the name of triaca (therinaum) is "state remay, held to be a highly efficacious and universal remedy for the bites of snakes and mad dogs. It is applied to the wound externally, and at the same time is taken

internally.

A large number of children die in the first, two weeks \*\*Political Research\*\* in the first in the first incoming to the opinion of one of the first physicians in Munils, at least one-fourth die. This mortality must enive from the children of the sick, and the side of t

<sup>.</sup> Four lines are omitted .- C.

explanation for an old custom-namely, that instances of such practices occur amongst all people. One very widely-spread malady is the itch, although, according to the assurance of the physician above referred to, it may be easily subdued; and, according to the judgment of those who are not physicians and who employ that term for any eruptions of the skin, the natives generally live on much too low a diet; the Bicols even more than the Tagalogs.\* Under certain conditions, which the physicians, on being questioned, could not define more precisely, the natives can support neither hunger nor thirst, of which fact I have on many occasions been a witness. It is reported of them, when forced into such a situation as to suffer from unappeased wants, that they become critically ill: and thus they often die. Hence arises the morbid mania for imitation, which

is called in Java Sakit-latar, and here Mali-mali. In Java many believe that the sickness is only assumed, because those who pretend to be afflicted with it find it to their advantage to be seen by newly arrived Europeans. Here, however, I saw one instance where indeed no simulation could be suspected. My companions availed themselves of the diseased condition of a poor old woman who met us in the highway, to practice some rough jokes upon her. The old woman imitated every motion as if impelled by an irresistible impulse, and expressed at the same time the most extreme indigna-

tion against those who abused her infirmity. In R. Mank's "Journey to the Amour," it is recorded:-"It is not unusual for the Maniagri to suffer also from a nervous malady of the most neculiar kind, with

In the country is in believed that assist's first inferr causes this unitidy. A friend, a strystologist, conjectures the cause to be the first use of very fait post's but the natives exerminally ont but little first, and the tipt are very adding for.

The elebrate in

which we had already been made acquainted by the descriptions of several travellers.\* This malady is met with, for the most part, amongst the wild people of Siberia, as well as amongst the Russians settled there. In the district of the Jakutes, where this affliction very frequently occurs, those affected by it, both Russians and Jakutes, are known by the name of 'Emiura;' but here (that is, in that part of Siberia where the Maniagri live) the same malady is called by the Maniagri 'Olon,' and by the Argurian Cossacks 'Olgandshi.' The attacks of the malady which I am now mentioning consist in this, that a man suffering from it will, if under the influence of terror or consternation, unconsciously, and often without the smallest sense of shame, imitate everything that passes before him. Should he be offended, he falls into a rage, which manifests itself by wild shricks and raving; and he precipitates himself at the same time, with a knife or any other object which may fall to his hand, upon those who have placed him in this predicament. Amongst the Maniagri, women, especially the very aged, are the chief sufferers from this malady; and instances, moreover, of men who were affected by it are likewise known to me. It is worthy of remark that those women who returned home on account of this sickness were notwithstanding strong, and in all

other respects enjoyed good health."

Probably it is only an accidental coincidence that Bushey in the Malay countries Sakit-later and Amok exist orgether, if not in the same individual, yet amongst the same people. Instances of Amok seem to occur also in the Philippines. I find the following account

also in the Philippines.† I find the following account in the Diario de Manila of Pebruary 21, 1866: In 

"Compare A. Essan, Joseph Record the Earth Hough Noviken Asia, vol. 18, 1861, 1871.

<sup>†</sup> According to Scraper, p. 69, in Zembourge and Basilan.

Cavite, on February 18, a soldier rushed into the house of a school-teacher, and, struggling with him stabbed him with a dagger, and then killed the teacher's son with a second stab. Plunging into the street, he stabbed two young girls of ten and twelve years of age and wounded a woman in the side, a boy aged nine in the arm. a coachman (mortally) in the abdomen, and besides another woman, a sailor and three soldiers; and arriving at his barracks, where he was stopped by the

Repard for the elecuius.

sentry, he plunged the dagger into his own breast. It is one of the greatest insults to stride over a sleening native, or to awaken him suddenly. They rouse one another, when necessity requires, with the greatest

Serve of small

circumspection and by the slowest degrees." The sense of smell is developed amongst the natives to so great a degree that they are able, by smelling at the nocket-handkerchiefs, to tell to which persons they belong ("Reisesk.," p. 39); and lovers at parting exchange pieces of the linen they may be wearing, and during their separation inhale the odor of the beloved

A ministry priest-part

being, besides smothering the relics with kisses. xv

From Nega I visited the parish priest of Librarian (Ligmanan), who, possessing poetical talent, and having the reputation of a natural philosopher, collected and

<sup>.</sup> The four of waking election presents readly refers to the widele-optend super etition that during after the and fraves, the healy, numerous languages of which

which you carring acres the soul leaves the healy; numerous isosistics of which corers is Bartina's work. Authors the Timptiany (North Lancon the worst of all coses is to this effect; "Many'st thought strepting," "Informe, i. 14. 1 Lesia ("Chittagona Hill Trocks." 1965, p. 460 relates of the mountain scopie as that place: "Their senarce of bridge in positior. Instead of prenist in 6 lb, they face the most had not more the cheek, and bishale the beauth freezily. Their form of speech is see "Chie me a clack," but "Good inc.".

named pretty beetles and shells, and dedicated the most elegant little sonnets. He favored me with the following

parrative:-In 1851, during the construction of a mad a little continue beyond Libmanan, at a place called Poro, a bed of shells

was dug up under four feet of mould, one hundred feet distant from the river. It consisted of Cyrene (C. subarbicularis. Busch.), a species of bivolve belonging to the family of Cyclades which occurs only in warm waters, and is extraordinarily abundant in the brackish waters of the Philippines. On the same occasion, at the depth of from one and a half to three and a half fost were found numerous remains of the early inhabitantsskulls, ribs bones of men and animals, a child's thighbone inserted in a spiral of brass wire, several stars' horns, beautifully-formed dishes and vessels, some of them painted, probably of Chinese origin; striped bracelets, of a soft, gypseous, copper-red rock, gleaming as if they were varnished;\* small cooper knives, but no iron utensils; and several broad flat stones bored through the middle: besides a wedge of petrified wood, embedded in a cleft branch of a tree. The place, which to this day may be easily recognized in a hollow, might, by excavation systematically carried on, yield many more interesting results. What was not immediately useful was then and there destroyed, and the remainder dispersed. In spite of every endeavor, I could obtain, through the kindness of Senor Focines in Naga, only one small vessel. Similar remains of more primitive

To be the property of the prop

inhabitants have been found at the mouth of the Bigaio. not far from Libmanan, in a shell-bed of the same kindand an urn, with a human skeleton, was found at the mouth of the Perlos, west of Sitio de Poro, in 1840. At the time when I wrote down these statements of the priest, neither of us was familiar with the discoveries made within the last few years relating to the lake dwellings (pile villages); or these notes might have been more exact, although probably they would not have been so easy and natural Mr. W. A. Franks, who had the kindness to examine

the vessel, inclines to the opinion that it is Chinese, and pronounces it to be of very great antiquity, without however, being able to determine its age more exactly; and a learned Chinese of the Burlingame Embassy expressed himself to the same effect. He knew only of one article, now in the British Museum, which was brought from Japan by Kaempfer, the color, glazing, and cracks in the glazing, of which (craqueles) corresponded precisely with mine. According to Kaempfer, the Japanese found similar vessels in the sea; and they value them very highly for the purpose of preserving their tea in them. Morga writes:--

"On this island, Luzon, particularly in the provinces of Manila, Pampanga, Pangasinan, and Hocos, very ancient clay restels of a dark brown color are found by the natives, of a sorry appearance; some of a middling size, and others smaller; marked with characters and stamps They are unable to say either when or where they obtained them; but they are no longer to be acquired, nor are they manufactured in the islands. The Japanese prize them highly, for they have found that the root of a herb which they call Tscha (tea), and which when drunk hot is considered as a great delicacy and of medicinal efficacy by the kings and lords in Japan, cannot be effectively preserved except in these vessels; which are so highly externed all over Japan that they form the most costly articles of their show-rooms and calinets. Indeed, so highly do they value them that they overlay them externally with fine gold embosed with greet skill, the control of the state of the state of the state of the vascels are valued at and fetch from two thousand teaversels are valued at and fetch from two thousand teater of the state of the them from the Japanese at very high rates, and take them from the Japanese at very high rates, and take

eagerness with which they have been sought for."

When Carletti, in 1597, went from the Philippines to work

When Carieto, in 1997, went from the Emilyanes to Japan, all the passengers on board were examined care.

\*\*The passengers on board were examined care.

\*\*The passengers on board were examined care.

\*\*The passengers on board were the passengers of the passengers

"These vessels were worth as much as five, six, and Printle even ten thousand scudi each; but they were not permitted to demand for them more then one Giulio (about a half Paolo)." In 1615 Carletti met with a Franciscan who was sent as ambassador from Japan to Rome, who assured him that he had seen one hundred and thirty thousand scudi paid by the King of Japan for such a vessel; and his companions confirmed the statement. Carletti also alleges, as the reason for the high price, "that the leaf cia or lea, the quality of which improves with age, is preserved better in those vessels than in all others. The Japanese besides know these vessels by certain characters and stamps. They are of great age and YETY fare, and come only from Cambodia, Siam Cochin-China, the Philippines, and other neighboring islands. From their external appearance they would be estimated at three or four quatrini (two dreier) . . . . It is perfeetly true that the king and the princes of that kingdom

possess a very large number of these vessels, and prize

148 THE FORMER PHILIPPINES THRU FOREIGN EVES them as their most valuable treasure and above all

Reene

other rarities ... and that they boast of their acquisitions, and from motives of vanity strive to outvie one another in the multitude of pretty vessels which they DOSSESS 114 Many travellers mention vessels found likewise

\$5,000 for

amongst the Dyaks and the Malays in Borneo, which from superstitious motives, were estimated at most exaggerated figures, amounting sometimes to many thousand dollars St. John's relates that the Datu of Tamparuli

(Borneo) gave rice to the value of almost \$3,500 for a jar, and that he possessed a second iar of almost fabulous value, which was about two feet high, and of a dark olive green. The Datu fills both jars with water, which, after adding plants and flowers to it, he dispenses to all the sick persons in the country. But the most famous jar in Borneo is that of the Sultan of Brunei, which not only possesses all the valuable properties of the other jars but can also speak. St. John did not see it, as it is always kept in the women's apartment; but the sultan, a credible man, related to him that the jar howled dolefully the night before the death of his first wife, and that it emitted similar tones in the event of impending misfortunes. St. John is inclined to explain the mysterious phenomenon by a probably peculiar form of the mouth of the vessel, in passing over which the air-draught is thrown into resonant verberations, like the Acolian harp. The vessel is generally enveloped in gold brocade, and is uncovered only when it is to be consulted; and hence, of course, it happens that it speaks only on solemn occasions. St. John states further that

<sup>· &</sup>quot;Carlette Voyages," B. 11. "Life in the Percent of the For East," i. 360.

the Bisayans used formerly to bring presents to the sultan; in recognition of which they received some water from the sacred jar to sprinkle over their fields and thereby ensure plentiful harvests. When the sultan was asked whether he would sell his jar for \$100,000. he answered that no offer in the world could tempt him to part with it.

Morga's description suits neither the vessel of Lib. Horga's description

manan nor the jar of the British Museum, but rather a vessel brought from Japan a short time ago to our Ethnographical Museum. This is of brown clay, small but of graceful shape, and composed of many pieces cemented together; the joints being gilt and forming a kind of network on the dark ground. How highly ancient nots of a similar kind, even of native origin. are esteemed in Japan down to the present day, is shown by the following certificate translated by the interpreter

of the German Consulate:-

"This earthen vessel was found in the porcelain factory Accessorated of Tschisuka in the province of Odori, in South Idzumi, and is an object belonging to the thousand graves..... It was made by Giogiboosat (a celebrated Buddhist priest), and after it had been consecrated to heaven was buried by him. According to the traditions of the prople, this place held grave mounds with memorial stones, That is more than a thousand years ago. . . . . . In the pursuit of my studies, I remained many years in the temple Sookuk, of that village, and found the vessel. I carried it to the high priest Shakudio, who was much delighted therewith and always here it about with him as a treasure. When he died it fell to me, although I could not find it. Recently, when Honkai was chief priest, I saw it again, and it was as if I had again met the spirit of Shakudio. Great was my commotion,

and I clapped my hands with astonishment; and, as

often as I look upon the treasure. I think it is a sign that the spirit of Shakudjo is returned to life. Therefore I have written the history, and taken care, of this treasure -Fran Krz Donis "

Baron Alexander von Siebold communicates the following:---

The value which the Japanese attach to vessels of this kind rests upon the use which is made of them by the mysterious tea societies called Charmoga. Respecting the origin of these societies, which still are almost entirely unknown to Europeans, different legends exist. They flourished, however, principally during the reign of the emperor Taikosama, who, in the year 1588, furnished the society of Cha-ma-ya at Kitano near Myako with new laws. In consequence of the religious and civil wars, the whole of the people had deteriorated and become ungovernable, having lost all taste for art and knowledge, and holding only rude force in any estem; brute strength ruling in the place of the laws. The observant Taikosama perceived that, in order to tame these rough natures, he must accustom them to the arts of peace, and thus secure prosperity to the country, and safety for himself and his successors. With this in view he recalled the Cha-na-ya society anew into life, and assembled

its masters and those acquainted with its customs around Their object. The object of the Cha-no-us is to draw man away from the influences of the terrestrial forces which surround him, to plant within him the feeling of complete repose,

and to dispose him to self-contemplation. All the exercises of the Cha-no-nu are directed to this object. Clothed in light white garments, and without weapons, the members of the Cha-no-que assemble round the mister's house, and, after resting some time in the ante-room, are conducted into a pavilion appropriated exclusive to these assemblies. This consists of the most costly kinds of wood, but is without any ornament which could possibly be abstracted from it; without color, and without varnish, dimly lighted by small windows thickly

overgrown with plants, and so low that it is impossible

to stand upright. The guests tread the spartment with solemn measured stens, and, having been received by him according to the prescribed formulas, arrange themselves in a half-circle on both sides of him. All distinctions of rank are abolished. The ancient vessels are now removed with solemn ceremonies from their wrappings, saluted and admired; and, with the same solemn and rigidly prescribed formulas, the water is heated on the hearth appropriated to the purpose, and the tea taken from the vessels and prepared in cups. The tea consists of the young green leaves of the teashrub rubbed to powder, and is very stimulating in its effect. The beverage is taken amidst deep silence. while incense is burning on the elevated pedestal of honor. loke: and, after the thoughts have thus been collected. conversation begins. It is confined to abstract subjects:

but politics are not always excluded. The value of the vessels employed in these assemblages. From is very considerable; indeed, they do not fall short of the value of our most costly paintings; and Taikosama often rewarded his generals with vessels of the kind. instead of land, as was formerly the practice. After the last revolution some of the more eminent Daimios (princes) of the Mikado were rewarded with similar Cha-no-yn vessels, in acknowledgment of the aid rendered to him in regaining the throne of his ancestors. The best of them which I have seen were far from beautiful. simply being old, weather-worn, black or dark-brown jars, with pretty broad necks, for storing the tea in: tall cups of cracked Craquelé, either porcelain or earthenware, for drinking the infusion; and deep, broad cisterns; besides rusty old iron kettles with rings, for heating the water: but they were enwranned in the most costly silken stuffs, and preserved in chests lacquered with gold. Similar old vessels are preserved amongst the treasures of the Mikado and the Tyccon, as well as in some of the temples, with all the care due to the most costly jewels, together with documents relating to their history

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From Libmanan I visited the mountain, Yamtik

(Amtik, Hantu),\* which consists of lime, and contains many caverns. Six hours westward by water, and one hour S.S.W. on foot, brought us to the Visita Ried surrounded by a thousand little limestone hills; from which we ascended by a staircase of sinter in the bed of a brook, to a small cavern tenanted by multitudes of bats, and great long-armed spiders of the species Phryaus, known to be poisonous ? A thick branch of a tree lying across the road was

perforated from end to end by a small ant. Many of the natives did not venture to enter the cave; and those who did enter it were in a state of great agitation, and were careful first to enjoin upon each other the respect to be observed by them towards Calapaitan.t Superstitions. One of the principal rules was to name no object in the

cave without adding "Lord Calaphitan's." Thus they did not bluntly refer to either gun or torch, but devoutly said "Lord C.'s gun," or "Lord C.'s torch." At a thousand paces from this lies another cave, "San Vicente," which contains the same insects, but another kind of bat. Both caves are only of small extent; but in Libmánas a very large stalactite cave was mentioned to me, the description of which, notwithstanding the fables mixed up with it, could not but have a true foundation. Our guides feigned ignorance of it: and it was not till after two days' wandering about, and after many debates, that they came to the decision, since I adhered to my purpose, to encounter the risk: when, to my great #8-

tonishment, they conducted me back to Calapaitan's According to Pather Capari C Pristings, Tenns, London, "vol. xxvi. p. Nél. bantu accass black ants the size of a wrop; areas, smaller black; and lastin, ref. J. According to Dr. Grandecker, probably Physmus Gray, Weele Green, briefs forth alax, "S. Bitzargab, Gra. Nazuri. Presente, Hert.", March 18, 1851, and portured and described in G. H. Brons, "Ord. Class.," vol. v. 18. I Colleged, Togol and Bicol, the hat; calculate, consequently, leed of the

cave; from which a narrow figure, hidden by a projection of rock, led filton one of the most progress antolated caves in the world. Its floor was everywhere firm and easy to the tread, and mostly dry; and it ram out into several branches, the entire length of which probably several branches, the entire length of which probably several branches, the whole series of rypal chambers and cattledriat, but whole series of rypal chambers which it contained, reflected no discredit which we have been also as the contained of the proposed of the int. My intention to return subsequently with laborers, for the purpose of systematic excavation, was not carried.

I was not lucky enough to reach the summit of the Unascender mountain, upon which was to be found a lake, "from aliah, where else should the water come?" For two days we labored strenuously at different points to penetrate the thick forest; but the guide, who had assured the priest in Libmanan that he knew the road, now expressed himself to the contrary effect. I therefore made the fellow, who had hitherto been unburdened, now carry a part of the baggage as a punishment; but he threw it off at the next turning of the road and escaped, so that we were compelled to return. Stags and wild boars are very numerous in these forests; and they formed the principal portion of our meals, at which, at the commencement of our expedition, we had as many as thirty individuals; who, in the intervals between them, affected to search for snails and insects for me, but with success not proportionate to their zeal.

Upon my departure from Daraga I took with me Adam a lively little boy, who had a taste for the calling of a seriest naturalist. In Libmanan he was saddenly lost, and with him, at the same time, a bundle of keys; and we looked for him in vain. The fact was, as I afterwards came to learn, that he went straight to Naga, and,

hat; with which he disappeared. I had once seen him. with the hat on his head, standing before a lookingglass and admiring himself; and he could not resist the temptation to steal it.

In the beginning of March I had the pleasure of accompanying the Collector (Administrador) of Camarines and a Spanish head-man, who were travelling across Daet and Mauban to the chief town. At five p. m. we left Butungan on the Bicol River, two leagues below Naga, in a falua of twelve oars, equipped with one 6-pounder and two 4-nounders, and reinforced by armed men; and about six we reached Cabusao, at the mouth of the Bicol, whence we put to sea about nine. The falus belonged to the collector of taxes, and had, in conjunction with another under the command of the alcalds, to protect the north coast of the province against smugglers and pirates, who at this time of the year are accustomed to frequent the hiding-places of the bay of San Miguel. Two similar gun-boats performed the duty on the south coast of the province.

Both the banks of the Bicol River are flat, and expand into broad fields of rice: and to the east are simultaneously visible the beautiful volcanos of Mayon, Iriga-Malina, and Isaror.

At daybreak we reached the bar of Daet, and, after two hours' travelling, the similarly named chief city of the province of North Camarines, where we found an excellent reception at the house of the alcalde, a polished Navarrese; marred only by the tame monkey, who should have welcomed the cuests of his master, turning his back towards them with studiously discourteous gestures, and going towards the door. However, upon the majordomo placing a spirit flask preserving

a small harmless snake on the threshold, the monkey sprang quickly back and concealed himself, trembling behind his master. In the evening there was a ball, but there were no dancers present. Some Filipinas, 4 dancelus who had been invited, sat bashfully at one end of the apartment and danced with one another when called

upon, without being noticed by the Spaniards who conversed together at the other end Our departure hence was delayed by festivities and Spenial sudden showers for about two days, after which the spirited horses of the alcalde carried us within an hour on a level road north-west, to Talisay, and in another hour to Indang, where a bath and breakfast were ready.

Un to this time I had never seen a bath-room in the house of a Spaniard; whereas with the Northern Europeans it is never wanting. The Spaniards appear to regard the bath as a species of medicine, to be used only with caution; many, even to the present day, look upon it as an institution not quite Christian. At the time of

the Inquisition frequent bathing, it is known, was a characteristic of the Moors, and certainly was not wholly

free from danger. In Manila, only those who live near the Pasig are the exceptions to the rule; and there the good or bad practice prevails of whole families bathing, in the company of their friends, in the open air. The road ends at Indang. In two boats we went down As automated

the river till stopped by a bar, and there at a well-supplied table prepared for us by the kindness of the sleade we awaited the horses which were being brought thither along a bad road by our servants. In the waste of Barre a tower, surrounded by two or three fishermen's buts and as many camarines, has been erected against the Moros. who, untempted by the same, seldom go so far westward. for it consists only of an open but covered with palm-

leaves-a kind of parasol-supported on stakes as thick

as one's arm and fifteen feet high; and the two cannot belonging to it ought, for security, to be buried. We followed the sea-shore, which is composed of silicious sand, and covered with a carpet of creeping shore plants in full bloom. On the edge of the wood, to the left, were many flowering shrubs and pandanus with large scarlet-red flowers. After an hour we crossed the river Longos in a ferry, and soon came to the spur of a crystalline chain of mountains, which barred our road and extended itself into the sea as Point Longos. The horses climbed it with difficulty, and we found the stream on the other side already risen so high that we rode kneedeep in the water. After sunset we crossed singly, with great loss of time, in a miserable ferry-boat, over the broad mouth of the Pulundage, where a pleasant read through a forest led us, in fifteen minutes, over the mountain-spur, Malanguit, which again projected itself right across our path into the sea, to the mouth of the Paracale. The long bridge here was so rotten that we were obliged to lead the horses over at wide intervals apart; and on the further side lies the place called Paracale, from which my companions continued their journey across Mauban to Manila. Paracale and Mambulao are two localities well known to all mineralogists, from the red lead ore occurring there.

On the following morning I returned to Longos; which consists of only a few miserable huts inhabited by goldwashers, who go about almost naked, probably because they are laboring during the greater part of the day in the water; but they are also very poor.

The soil is composed of rubbish, decomposed fragments

of crystalline rock, rich in broken pieces of quartz. The workmen make holes in the ground two and one-half feet long, two and one-half broad, and to thirty feet deep-At three feet below the surface the rock is generally

found to contain gold, the value increasing down to eighteen feet of depth, and then again diminishing, though these proportions are very uncertain, and there is much fruitless search. The rock is carried out of the holes in baskets, on ladders of bamboo, and the water in small pails; but in the rainy season the holes cannot possibly be kent free from water, as they are situated on the slope of the mountain, and are filled quicker than they can be emptied. The want of apparatus for discharging water also accounts for the fact that the pits are not

dug deeper.

The breaking of the auriferous rock is effected with 4 polantes two stones; of which one serves as anvil, and the other as hammer. The former, which is slightly hollowed in the center, is laid flat upon the ground; and the latter, four by eight by eight inches in dimensions, and therefore of about twenty-five pounds weight, is made fast with rattan to the top of a slender young tree, which lies in a sloping position in a fork, and at its opposite end is firmly fixed in the ground. The workman with a jerk forces the stone that serves for hammer down upon the auriferous rock, and allows it to be again carried upwards by the elasticity of the young tree. The crushing of the broken rock is effected with an exercise

apparatus equally crude. A thick stake rises from the center of a circular support of rough-hewn stones (which is enclosed in a circle of exactly similar stones) having an iron pin at its top, to which a tree, bent horizontally in the middle, and downwards at the two ends, is fixed, Being set in motion by two carabaos attached in front; it drags several heavy stones, which are bound firmly to it with rattans, round the circle, and in this manner crushes the broken rock, which has been previously

mixed with water, to a fine mud. The same apparatus is employed by the Mexican gold-washers, under the

Monathine.

name of Rastra. The washing-out of the mud is done by women. They kneel before a small wooden gutter filled with water up to the brim, and provided with boards, sloping downwards, in front of the space assimed to each woman; the gutter being cut out at these places in a corresponding manner, so that a very slender stream of water flows evenly across its whole breadth downwards over the board. With her hand the workwoman distributes the auriferous mud over the board, which, at the lower edge, is provided with a cross-piece; and, when the light sand is washed away, there remains a stratum consisting chiefly of iron, flint, and ore, which is taken up from time to time with a flat piece of board, and laid on one side; and at the end of the day's work, it is washed out in a flat wooden dish (buten), and, for the last time, in a coco-shell; when, if they are lucky, a fine yellow dust shows itself on the edge." During the last washing the slimy juice of the Gingo is added to the water, the fine heavy sand remaining suspended therein for a longer time than in pure water, and thus being more easily separated from the gold-dust, t

Ple director

It is further to be mentioned that the refuse from the pits is washed at the supper end of the water-gutter, to that the sand adhering the current intended for pounding may deposit its gold may be considered to evanhing-board. In order to melt the gotture or on the mint a lump, in which form it is bought by the dealers, it as poured into a small beart-shell (undium), and, it as poured into a small beart-shell (undium) and, the poured with a handful or charcoat, placed

In only one cut of segretal apprinces a made in the Berlin Mining Colors and adjusted seal Colors and the Mining Colors remaining an the moti-blast, as polits, in one apprincent on the heavy and remaining an the moti-blast, as polits, in the colors of the moti-blast, as polits, and the colors of the moti-blast of the colors of the color

kird's nests

in a potsherd; when a woman blows through a narrow bamboo-cane on the kindled coals, and in one minute the work is completed.\*

The result of many inquiries shows the profit per head to average not more than one and one-half reals daily. Further to the south-west from here, on the monant malagain, are seen the ruises of a Spanish mining company: a heap of rubbish, a pit fifty feet deep, a large and a six feet high. The monanties for further thouse and a six feet high. The monanties for further than the first of the stream work, which are of wh

almost pure clay earth with sand.

On the sides hung some edible nexts of the salanguas, but not of the same kind as those found in the caverus on the south coast of Java. These, which are of much leas value than the latter, are only occasionally collected by the Chinese dealers, who reckon them nominally at five cents each. We also found a few of the next

building birds (Colloculia troplodyles, Gray).†

Around lay so large a number of workings, and there

Abresians were so many little abandoned pits, wholly or half fallen workings.

to ruin, and more or less grown over, that it was necessary to step between with great caution. Some of them

\*A small geld number obtained in this manner, tested at the Borlin Misler

\*Collects completed.

Gold. 27.4 Silver. 19.0 Iron 9.5 Plist earth 3. Loss 9.1

1. The next and bird are fagured in Grays' Wingres of Birds' to the section of Grays and Artificial and the late of Grays and Certain for the most period core (core thereived, and grayses) by the half of mus, the whole interior is corected with an Irrigation research of the Birds' of mus, the whole interior is corected with an Irrigation research of the Birds' of

were still being worked after the mode followed at Lóngos. but with a few slight improvements. The pits are twice as large as those excavated there, and the rock is lifted. un by a pulley to a cylindrical framework of bambon which is worked by the feet of a lad who sits on a bank higher up

Ten minutes north of the village of Malaguit is a mountain in which lead-glance and red lead have been obtained; the rock consisting of micaceous gneiss much decomposed. There is a stream-work over one hundred feet in length. The rock appears to have been very poor. . The highly prized red-lead ores have been found on the

top of this same hill, N. 30° W. from the village. The quarry was fallen to ruin and flooded with rain, so that only a shallow hollow in the ground remained visible: and after a long search amongst the bushes growing there a few small fragments were found, on which chromelead ore was still clearly to be recognized. Captain Sabino, the former governor of Paracale, a well-informed Filipino, who, at the suggestion of the alcalde, accompanied me, had for some years caused excavations to be carried on, in order to find specimens for a speculator who had in view the establishment of a new mining company in Spain: but the specimens which were found had not been removed, as speculation in mines in the Philippines had, in the interval, fallen into discredit on the Exchange of Madrid; and as yet only a little box full of sand, out of a few small drusy cavities, has been fixed upon and pounded, to be sold as variegated writingsand, after being carefully sifted.

A peculiarly beautiful fan-palm grows on this hill. Its stem is from thirty to forty feet high, cylindrical and dark-brown, with white rings a quarter of an inch broad at distances of four inches, and, at similar intervals, crown-shaped bands of thorns two inches long,

Near the crown-leaf the stem passes into the richest brown of burnt sienna.

Notwithstanding a very bad road, a pleasant ride foreign carried us from Paracale to the sea-shore, and, through

a beautiful wood, to Mambulao, which lies W. by N. I alighted at the tribunal, and took up my lodgings in the room where the ammunition was kept, as being the only one that could be locked. For greater security, the powder was stored in a corner and covered with carabao-hide: but such were my arrangements that my servant carried about a burning tallow light, and his assistant a torch in the hand. When I visited the Fillpino oriest. I was received in a friendly manner by a young girl who, when I offered my hand, thanked me with a bow, saying, "Tengo las sarnes" ("I have the itch"),

The malady, which is very common in the Philippines, appears to have its focus in this locality. A quarter of a league N.N.E. we came upon the ruins Gotte and of another mining undertaking, the Anola de Oco. Shafe and water-cutting had fallen in, and were thickly grown over; and only a few of the considerable buildings were

still standing; and even those were ready to fall. In a circle some natives were busily employed, in their

manner, collecting grains of gold. The rock is gnelss, weathered so much that it cannot be recognized; and at a thousand paces on the other side is a similar one. clearly crystalline. Half a league N. by E. from Mambulao is the lead. Norablesis and mountain of Dinissan. Here also all the works were fallen in, choked with mud and grown over. Only after a long search were a few fragments found with traces of red-lead ore. This mountain consists of hornblende rock; in one place, of homblende slate, with very

beautiful large crystals

Capper.

in the ground marks the site of an old copper-mine, which must have been eighty-four feet deep. Copper ores are found in several places in Luzon; and specimens of solid copper were obtained by me at the Bay of Luyang, N. of the Enschada de Patag, in Caramuan, Unpersonal Very considerable beds of copper ore occur in Manrequeredniss. cayán, in the district of Lepanto, and in the central mountain-range of Luzon between Cagayán and Ilocos,

which have been worked by a mining company in Manila since 1850; but the operations seem to have been most

Papier man

unsuccessful. In 1867 the society expended a considerable capital in the erection of smelting furnaces and hydraulic machinery: but until a very recent date. owing to local difficulties, particularly the want of roads, it has not produced any copper." In 1869 I heard, in London, that the undertaking had been given up. According to my latest information, however, it is certainly in progress; but the manage-

ment have never, I believe, secured a dividend. The statement of 1872, in fact, shows a loss, or, as the Spaniards elegantly say, a dividendo pasiro. What Europeans yet appear unable to accomplish, the wild Igorots, who inhabit that trackless range of mountains, have carried on successfully for centuries, and to a proportionally larger extent; and this is the more remarkable as the metal in that district occurs only in

the form of flints, which even in Europe can be made profitable only by particular management, and not without expense. a-retalitietes The copper introduced into commerce by the Igorobs and considerfrom 1840 to 1855, partly in a raw state, partly manu-

factured, is estimated at three hundred piculs yearly-\* Securish Catalogue of the Paris Hatshiring, 1867.

Jasor's Tencels in the Philippines The extent of their excavations, and the large existing

masses of slag, also indicate the activity of their operations for a long period of time. In the Ethnographical Museum at Berlin is a copper Cappe bate kettle made by those wild tribes. Meyer, who brought attributed it states that it was made by the Negritos in the interior

of the island, and certainly with hammers of pornbury as they have no iron; and that he further found, in the collection of the Captain General of the Philippines a large shallow kettle of three and one-half feet in

diameter, which had been bought for only three dollars: whence it may be inferred that, in the interior of the island, the copper occurs in large masses, and probably solid; for how could those rude, uncultivated negritor understand the art of smelting copper?

The locality of these rich quarries was still unknown Coper sessing

to the Governor, although the copper implements brought a service service thence had, according to an official statement of his in 1833, been in use in Manila over two centuries. It is now known that the copper-smiths are not Negritos but Ignores; and there can be no question that they procticed this art, and the still more difficult one of obtaining copper from flint, for a long period perhaps previous to the arrival of the Spaniards. They may possibly have learnt them from the Chinese or Jananese. The chief engineer, Santos\*, and many others with him, are of opinion that this race is descended from the Chinese or Japanese, from whom he insists that it acquired not only

its features (several travellers mention the obliquely placed eyes of the Igorots), its idols, and some of its customs, but also the art of working in copper. At all events, the fact that a wild people, living isolated in the mountains, should have made such progress in the science of smelting, is of so great interest that a description of their procedure by Sentes (essentially only a renetition of an earlier account by Hernander in the Revista Minera. i. 112) will certainly be acceptable. \* "Informe sobre les Minas de Cobre," Mesils, 1802.

parety'

The present mining district acquired by the society mentioned, the Sociedad Minero-metaluraien Cantabarafilining de Mancoune, was divided amongst the Igorots into larger or smaller parcels strictly according to the number of the population of the adjacent villages, where boundaries were icalously watched; and the possessions of each separate village were again divided between certain families: whence it is that those mountain districts exhibit, at the present day, the appearance of a honeycomb. To obtain the ore, they made cavities, in which they lighted fires in suitable spots, for the purpose of breaking the rock into pieces by means of the elasticity of the heated water contained in the crevices, with the additional assistance of iron implements. The first breaking-up of the ore was done in the stream-work itself, and the dead heaps lay piled up on the ground, so that, in subsequent fires, the flame of the pieces of wood always reached the summit; and by reason of the quality of the rock, and the imperfection of the mode of procedure, very considerable down-falls frequently occurred. The ores were divided into rich and quartziferous: the former not being again melted, but the latter being subjected to a powerful and persistent roasting, during which, after a part of the sulphur, antimony, and arsenic had been exhaled, a kind of distillation of sulphate of copper and sulphate of iron took place, which appeared as "stone," or in balls on the surface of the quartz, and could be easily detached.\*

• According to the Candergon, the following over one fronti—"Varigated engager see (now) or a superment, the following control of the cont

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								0.25

The furnace or smelting apparatus consisted of a The Swelter. mund hollow in clavey gound, thirty centimeters in diameter and fifteen deep; with which was connected a conical funnel of fire-proof stone, inclined at an angle of 30°, carrying up two bamboo-canes, which were fitted into the lower ends of two notched pine-stems; in these two slins, covered all over with dry grass or feathers, moved alternately up and down, and produced

the current required for the smelting. When the Igorots obtained black copper or native & season. copper by blasting, they prevented loss (by oxidation)

by setting up a grucible of good fire-proof clay in the form of a still: by which means it was easier for them to pour the metal into the forms which it would acquire from the same clay. The furnace being arranged, they supplied it with from eighteen to twenty kilograms of rich or roasted ore, which, according to the repeated experiments of Hernandez, contained twenty per cent of copper; and they proceeded quite scientifically, always exposing the ore at the mouth of the funnel, and consequently to the air-drafts, and placing the coals at the sides of the furnace, which consisted of loose stones piled one over another to the height of fifty centimeters. The fire having been kindled and the blowing apparatus. already described, in operation, thick clouds of white, yellow, and orange-yellow smoke were evolved from the partial volatilization of the sulphur, arsenic, and antimony, for the space of an hour; but as soon as only

sulphurous acid was formed, and the heat by this procedure had attained its highest degree, the blowing was discontinued and the product taken out. This consisted of a dross, or, rather, of the collected pieces of ore themselves, which, on account of the flinty contents of the stones composing the funnel, were transformed by the decomposition of the sulphurous metal into a porous

mass, and which could not be converted into dross nor form combinations with silicious acid, being deficient in the base as well as in the requisite heat; and also of a very impure "stone," of from four to five kilograms, weight and containing from fifty to sixty per cent of copper. Several of these "stones" were melted down together

for the space of about fifteen hours, in a powerful fire; and by this means a great portion of the three volatile substances above named was again evolved; after which they placed them, now heated red-hot, in an upright position, but so as to be in contact with the draught: the coals, however, being at the sides of the furnace. After blowing for an hour or half-an-hour, they thus obtained, as residuum, a silicate of iron with antimony and traces of arsenic, a "stone" containing from seventy to seventy-five per cent of copper, which they took off in very thin strips, at the same time using refrigerating vessels; and at the bottom of the hollow there remained, according as the mass was more or less freed from sulphur, a larger or smaller quantity (always, however, impure) of black copper,

The purified stones obtained by this second process were again made red-hot by placing them between rows of wood, in order that they might not melt into one another before the fire had freed them from impurities.

The black copper obtained from the second operation, and the stones which were re-melted at the same time. were then subjected to a third process in the same furnace (narrowed by quarry stones and provided with a crucible); which produced a residuum of silicious iron and black copper, which was poured out into clay moulds, and in this shape came into commerce. This black copper contained from ninety-two to ninety-four per cent of copper, and was tinged by a carbonaccous compound of the same metal known by its yellow color, and

the axide on the surface arising from the slow cooling. which will occur notwithstanding every precaution: and the surface so exposed to oxidation they beat with green twigs. When the copper, which had been thus extracted with so much skill and patience by the Igorope was to be employed in the manufacture of kettles, pines and other domestic articles, or for ornament, it was submitted to another process of purification, which differed from the preceding only in one particular, that the quantity of coals was diminished and the air-draught increased according as the process of smelting drew near to its termination, which involved the removal of the carbonaceous compound by oxidation. Santos found, by repeated experiment, that even from ores of the mean standard of twenty per cent, only from eight to ten per cent of black copper was extracted by the third operation; so that between eight to twelve per cent still remained in the residuum or porous quartz of the operation

It was difficult to procure the necessary means of Furiewane transport for my beginn on the return journey to feels.

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Practic, the roads belief in the second procure of the continuous returns that no new model we truth the first the for the purpose. In Membladon the influence of the feel for the purpose. In Membladon the influence of the Tagalog demant better than Bicot; the Tagalog demant by with the families come here, from Luchen and Menulum, a file pursuit of trade. They buy up gold, and import in families come here, from Luchen and Menulum, a file mount of the families come here, from Luchen and Menulum, and the pursuit of trade. They buy up gold, and import in consulp from fifteen to sixteen canests, and a mark demand of the families come the contract of the form of the first the state of the families come the contract and a mark demand of the families of the fam

THE PORMER PHILIPPINES THEY POREIGN EVEL offered in smaller quantities than one ounce, only \$10.\* They weigh with small Roman scales, and have no great

reputation for honesty. North Camarines is thinly inhabited, the population of the mining districts having removed after the many

undertakings which were artificially called into existence by the mining mania had been ruined. The goldwashers are mostly dissolute and involved in debt, and continually expecting rich findings which but very seldom occur, and which, when they do occur, are forthwith dissipated;-a fact which will acount for champagne

and other articles of luxury being found in the shops of the very poor villagers. Malaguit and Matango, during the dry season, are said to be connected by an extremely good road; but,

when we passed, the two places were separated by a quagmire into which the horses sank up to their middle. In Labo, a little village on the right bank of the river Labo (which rises in the mountain of the same name), the conditions to which we have adverted are repeatedvestiges of the works of former mining companies fast disappearing, and, in the midst, little pits being worked by the natives. Red lead has not been found here. but gold has been, and especially "platinum," which some experiments have proved to be lead-glance. The mountain Labo appears from its bell-shape and the strata exposed in the river bed to consist of trachytic hornblende. Half a league W.S.W., after wading through mud a foot deep, we reached the mountain Dollas where lead-glance and gold were formerly obtained by

a mining company; and to the present day gold is obtained by a few natives in the usual mode. According to the prices current with us, the velue would be calculated at Beat \$12; the value of the marked specimen, to which we have before referred.

Neither in the latter province, nor in Manila, could "Muco I acquire more precise information respecting the his <sup>Monico</sup> tories of the numerous unfortunate mining, enterprises. Thus much, however, appears certain, that they were originated only by speculators, and never property worked with sufficient means. They threfore, of necessity, collapsed so soon as the speculators coassaf from their coverations.

North Camarines yields no netal with the exception deviated of the little quick obtained by the natives no surprise. As manner. The king of Spain at first received a fifth, and then a tenth, of the protoce; but the tax subsequently ceased. In Morga's time the tenth amounted on an average to 310,000 ("which was steep quite access"); the profit, consequently, to above \$100,000. Genetal Carrett was informed by the severe of Manila that

gold to the value of \$200,000 was collected annually without the help of either fire or quickeliver, and that Paracale, in particular, was rich in gold. No data exist from which I could estimate the estual rate of produce:

and the answers to several loquifies deserve no mention. The produce is, at all events, very small, as well on account of the incompleteness of the mode of procedure as of the irregularity of lates, for the natives work only when they are compalled by necessity.

I returned down the atream in a Boatte Indeang, a Pattern of the Processity of the Proces

An old mariner, who had navigated this coast for some many years, informed me that the same winds prevail from Daet as far as Cape Engaño, the north-east point of Luzon. From October to March the north-east

of Luzon. From October to March the north-east wind prevails, the monsoon here beginning with north winds, which are of short duration and soon pass into the north-east; and in January and February the east winds begin and terminate the monsoon. The heaviest rains fall from October to January, and in October typhoons sometimes occur. Beginning from the north or north-east, they pass to the north-west, where they are most violent; and then to the north and east, sometimes as far as to the south-east, and even to the south. In March and April, and sometimes in the beginning of May, shifting winds blow, which bring in the southwest monsoon; but the dry season, of which April and May are the driest months, is uninterrupted by rain. Thunder storms occur from June to November: most frequently in August. During the south-west monsoon the sea is very calm; but in the middle of the northeast monsoon all navigation ceases on the east coast. In the outskirts of Baler rice is sown in October, and reaped in March and April. Mountain rice is not

## ΧVΙ

Sen Miguel bay. cultivated.

Samous my baggag from Dest to Cabusus in a schoomer, I proceed on foot, by the road to that place, to the ceast on the west side of the Bay of San Miguel. We crossed the must of the river in a bank, which the hones swam after but they were soon abandoned from unfitness. At the month of the next river, Sacceivin, the water was so high that the bearers stripped themselves maked and curried the baggage over on their deview asked and curried the baggage over on their procession needless; indeed, and could be a format this procession needless; indeed, the control of the cont

many a roundabout course to avoid puddles, which, being already wet through, we no longer fear. After having waded over eight other little rivers we were obliged to leave the shore and pursue the road to Colasi along steep, slippery, forest paths, the place lying right in the middle of the west side of the bay. The sea-shore was very beautiful. Instead of a continuous and, at the ebb, ill-smelling border of mangroves, which is never wanting in those places where the land extends into the sea, the waves here reach the foot of the old trees of the forest, many of which were washed underneath. Amongst the most remarkable was a fringe of stately old Barringleni, covered with orchids and other epiphytes-gorgeous trees when in flower: the red stamens, five inches long, with golden yellow anthers like tassels, depending from the boughs; and their fruit. of the size of the fist, is doubly useful to the fisherman. who employs them, on account of their specific gravity, in floating his nets, and beats them to pieces to stupefy the fish. The foremost trees stood bent towards the sea, and have been so deflected probably for a long time. like many others whose remains still projected out of the water. The destruction of this coast appears to be very considerable. Amongst the climbing palma one peculiar kind was very abundant, the stem of which as thick as the arm, either dragged itself, leafless, along the ground, or hung in arches above the branches, carrying a crown of leaves only at its extremity; while another, from its habitat the common calamus, had

caryota leaves. Wild boars are very plentiful here; a hunter offered us two at one real each. The direction of the flat costs which extends N.N.W. Goleti. to S.S.E. from the point of Daet is here interrupted by the little peak of Colasi, which projects to the east, and has srows a rapidly that all old people remember

it to have been lower. In the Visita Colasi, on the northern slope of the mountain, the sea is so rough that no boat can live in it. The inhabitants carry on fishing; their fishing-grounds lie, however, on the southern slope of the mountain, in the sheltered bay of Lalauigan, which we reached after thee hours' journey over the ridge.

clurer.

A four-cared horne, hired at this place, as the weather was favorable, was to have conveyed us in two hours to Cabusao, the port of Naga; but the wind average cound and a storm ensued. Theroughly wet and not without loss, we ran to Barredoneta, a risite situated at a third of the distance. The intelligent Tentiers of Colsaid, whom we met here, also confirmed the fact of the rapid growth of the little near.

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In opposition to my with to second the monatrial, great obtaineds were said to exist when every one would be eccupied in preparations for the Baster feativel, which were supported to the proper second to the complete of the present was discovered the next moving. Inlined those reason was discovered the next moving. Inlined those are excellent for the main, and particularly for bensetated to the proper second to the proper second to the they would not last a 44 worst with the proper second to the they would not last a 44 worst with a purpose, that been given easy by my servant, who did the proposed to the proper second to the proposed of the purpose, had been given easy by my servant, who did were much to the worst.

4 Mijsermed

The shore from Barteloneta to Cabusao is of the same character as the Daet-Colasi but running north and south; for ground, sandy clay, is covered with a thick stratum of broken bivalves. The road was very difficult, as the high tide forced us to climb between the trees and thick underwood. On the way we met an enterprising family who had left Daet with a cargo of cocomus for Naga, and had been weeked here; asswing only one out of the tinglas of old, but recovering all the natus. 'They were living in a small hastily-runsup list, upon coconat, rice, fish, and mussels, in consolidation of return. There were the consolidation of a lond, and the consolidation of the consolidati

ding day, particularly in one place where the surge beat against a wood of fan-palms (Carypha sp.). On the side facing the sea, in groups or rows stood the trees. bereft of their crowns, or lying overthrown like columns amid the vast ruins of temples (one of them was three feet in diameter); and the sight immediately reminded me of Pompeii. I could not account for the bareness of the trunks, until I discovered a but in the midst of the palms, in which two men were endeavoring to anticipate the waves in their work of destruction by the preparation of sugar (Innguleh). For this purpose, after stripping off the leaves (this nalm flowering at the top), the upper end of the stem is cut across, the surface of the incision being inclined about five degrees towards the horizon, and, near its lower edge, hollowed out to a very shallow gutter. The juice exudes over the whole surface of the cut, with the exception of the intersected exterior petioles, and, being collected in the shallow channel, is conducted by a piece of banana-leaf, two inches broad, and four inches long, into a hamboo-cane

In Dact at that season six runs cost one concrete and in Naga, only fifteen behavior amony by water, they expected to sell two outs for runs case to (twentysevented). The fact was that in Naga, at that time, one fact fetched two collected;—twitte clarge as among in air Dace.

attached to the trunk. In order to avert the rain from the seacharine issue, which has a faint, pleasantly aromatic flavor as of barley-sugar, all the trees which have been tapped are provided with caps formed of beat dodded palmeteres. The average daily produce of each tree is four bamboos, the interior of which is about three incides and a half in diameter. When removed,

what more than ten quarts daily.

The produce of each tree of co

The produce of each tree of course is very unequal. Always intermittent, it ceases completely after two months-at the utmost, three months; but, the proportion of those newly cut to those cut at an earlier date being the same, the yield of the incisions is about equal, The juice of thirty-three palms, after evaporation in an iron pan immediately upon each collection, produces one ganta, or (there being four such collections) four gantas, daily; the weekly result being twenty gantas, or two tinaias of sugar, each worth two dollars and a half on the spot. This statement, derived from the penale themselves, probably shows the proportion somewhat more unfavorable than it really is; still, according to the opinion of an experienced mestizo, the difference cannot be very considerable. Assuming the above figures as correct, however, one of these magnificent trees would give about one dollar and two-thirds, or, after deducting the laborers' wages one real per diem, about a thaler and two-thirds; not a large sum truly; but it is some consolation to know that, even if man did not interfere, these trees would in process of time fall victims to the breakers, and that, even if protected against external ravages, they are doomed to natural extinction after once producing fruit.

Cabusao lies in the southern angle of San Miguel Bay which is almost on every side, surrounded by high

Neglected

mountains, and affords good anchorage for ships. From here I repaired across Naga to the south coast. Four leagues from Naga, in the heart of Ragay, on the south-leagues from Naga, in the heart of Ragay, on the south-leagues from Naga, in the heart of Ragay, on the south-leagues from Naga, in the heart of Ragay, on the south-leagues from Naga, in the heart of Ragay, on the heart of the heart of Ragay and Paragay.

In Quitang, between Pamplona and Panacao, where A Irona two books unite themselves into one little irver deboact—
times two books unite themselves into one little irver deboact—
ing at the latter place, a young Frenchmen had established a haeiend. He was contexted and hopeful, and
bouldy praised the industry and feterdiness of his people.

As a rule, seem to gare better with the natives than
Spaniards. Of these caucitous, the bitterest complaints are fire for the injustice of the demands made
upon the lower classes in the settlement of their wages;
which, if they do not immediately find the necessary
hands for every employment, do not correspond with
the enhanced value of the products and, according to
them, the natives must even be driven from public

The Fillion correspond to independent than the TATAFANIA

European inborer, because he has fewer wants and, as a subseries and the services and the services registre, that there save he self-instance and the services registre, that there save he self-instance has been been serviced by the most of the services and the services have been serviced by the services and the services and the services and the services are services as the services are services as the services are services that the services short the above draws and the services that the services are services that the services are services as the services are services are services as the services are services are services as the services are services as the services are services as the services are services are services as the services are services are services as the services are services as the services are services are services are services as the services are services are services as the services are services are services are services are services as the services are ser

native landowner, is not compelled to earn his bread as the daily laborer of another; yet, with reference to wages, it may be questioned whether any colony whatever offers more favorable conditions to the planter than the Philippines. In Dutch India, where the prevalence of monopoly almost excludes private industry, free laborers obtain one-third of a guilder-somewhat more thin one real, the usual wages in the wealthy provinces of the Philippines (in the poorer it amounts to only the half); and the Javanese are not the equals of the Filinines, either in strength, or intelligence, or skill; and the rate of wages in all the older Slave States is well known. For the cultivation of sugar and coffee, Mauritius and Ceylon are obliged to import foreign laborers at great expense, and to pay them highly; and vet they are successful.

From Ouitang to Pasacao the road was far worse than it had heretofore been; and this is the most important road in the province! Before reaching Pasacao, evident signs are visible, on the deputed sides of the limestone, of its having been formerly washed by the sea. Pasacao is picturesquely situated at the end of the valley which is intersected by the Itulan, and extends from Pamplona, between wooded mountains of limestone, as far as the sea. 'The ebb tides here are extremely irregular. From noon to evening no difference was observable, and, when the decrease just became visible, the tide rose again. Immediately to the south, and facing the district, the side of a mountain, two thousand feet high and above one thousand feet broad, had two years ago given way to the subterranean action of the waves. The rock consists of a tough calcareous breccia, full of fragments of mussels and corals; but, being shoeless, I could not remain on the sharp rock sufficiently long to make a closer examination.

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For the same reason, I was obliged to leave the ascent A beautiful of the Yamtik, which I had before vainly attempted from Libmanan, unaccomplished from this point, although I had the advantage of the company of an obliging French planter in a boat excursion in a northwesterly direction along the coast. Here our hoat floated along over gardens of coral, swarming with magnificently colored fishes; and after two hours we reached a cavern in the limestone, Suminabana, so low that one could stir in it only by creeping; which contained a few swallows and bats. On the Calebayan river. on the further side of Point Tanaun, we came upon a solitary shed, our night-quarters. Here the limestone rance is interrupted by an isolated cliff on the left bank of the little river, consisting of a crystalline rock chiefly composed of hornblende: which moreover, on the side exposed to the water, is surrounded completely by lime-

The surrounding mountains must swarm with with 1540. boars. Under the thatched roof of our but, which serves as a shelter to occasional hunters, more than a hundred and fifty lower jaw-bones were set up as hunting trophies. The place appeared as if created for the breeding of cattle. Soft with folder grass, and covered with a few groups of trees, with slopes intersected by rustling brooks, it rose up out of the sea, and was encompassed by a steep wall of rock in the form of a semicircle; and here cattle would find grass, water, shade, and the protection of an enclosing rempert. While travelling along the coast, we had remarked a succession of similar localities, which however, from lack of enterprise and from the dread of pirates, were not utilized. As soon as our supper was prepared, we carefully extinguished our fire. that it might not serve as a signal to the vagabonds of the sea, and kept night watches.

stone

nev

On the following morning we intended to visit a cave never before entered; but, to our astonishment, we found no proper exerce, but only an entranse to a cavern a few feet in depth. Visible from a distance, it must often have been passed by the huntern, although, as we were assured by our companions—who were astonished at the debulon—no non had ventured to enter it from stress of superstitious terror.

The north coats of Camarines, as I have frequently

Inlation of

remained, i., during the north-east memore, shrows unproposable with the south coat, received by the outlying indust, remains always accessible. The most conflying indust, remains always accessible. The most industries of the eastern provinces, which during summer capper their produce by the northern ports, in the winter often remain for months car of from all most read over the small strip of final to the south count. How much has been done by Nature, and how little by man, to facilitate this intercourse, is very evident when we reflect upon the condition of the read to Passano, lattly described, in connection with the condition of the read to Passano, lattly described, in connection with the condition of

Moser Registres

other from the south-east, and both navigable before hey reach the borders of the province, flow through the middle of it in a line parallel with the coast (taking no account of its windings), and, after their junction, send their waters together through the estuary of Cabiasao into the Bay of San Miguel. The whole province, therefore, is traversed through its center by two navigoble rivers, which, ar regards commerce, form only

Salaisee an Saccess But the harbor of Cabusao, at the bottom of the Bay of San Miguel, is not accessible during the north-east monsoon, and has this further disadvantage, that the intercourse of the whole of the eastern part of Lucos with Manila on the carried on only by a very circulture or and the court of the c

Many similar instances may be brought forward. Best reads
In 1861 the English vice-consul reported that in Iloilo a reise freight picul of sugar had risen more than 2 r. in price (as much as the cost of freight from Iloilo to Manila), in conse-

quence of the bad state of the road between the two places, which are only one league asunder.

If, without reference to transport by sea, the islands

were not favored in so cutraordinary a manner by policidated intermediate from with avaigable month, at still greater proportion of their produce would not have been one-vertile into money. The people, as well as the local arthorities, have no desire for roads, which they them substitute, have no desire for roads, which they them substitute, have no desire for roads, which they been under manner and the substitute of the s

ment itself, up to within a short time since, favored such a state of affairs; for bad reads belong to the essence of the old Spanish colonial policy, which was always directed to effect the isolation of the separate provinces of their great trainmarine possessions, and to prevent the growth of a sense of national interest, in order to facilitate their government by the distant mother countries.

Besides, in Spain itself matters are no better. The means of communication there are no very deficient that, as is intance, necrobardies is not from Santander that, as intance, necrobardies is not from Santander that, as intance, necrobardies is not from Santander professors to the different route, which are properference to the direct route, which are properference to the santanes can be a properled to the santanes of the santanes are as a section of the santanes are proposed.

## XVII

This Isada (pronounced Isada) rises up in the middle of Camarines, between San Miguel and Lagonop bays. While its eatern slope almost reaches the sea, it is separated on its expansated on the sound strip of inundated land from San Miguel Bay. In circumference its at least twelve leagues; and its height 1,966 meters, I Very flat at its base, it swelfs gradually to 16°, and higher

La Situation Connections de l'Espaque.
 Lessge, "Coup d' Oris," in Journal des Economiers, September, 1852.

Ges, on the northern slope of the Isarog.
Usefoy, a settlement of Igorota.
Ravine of Betra.

un to 21° of inclination, and extends itself, in its western aspect, into a flat dome-shaped summit. But, if viewed from the eastern side, it has the appearance of a circular chain of mountains rent asunder by a great ravine. On Coello's map this ravine is erroneously laid down as extending from south to north; its bearing really is west to east. Right in front of its opening, and half a jeague south from Gos, lies the pretty little village of Rungus, by which it is known. The exterior sides of the mountain and the fragments of its large crater are covered with impenetrable wood. Respecting its volcanic eruptions tradition savs nothing.

The higher sloves form the dwelling-place of a small Primite race of people, whose independence and the customs of a primitive age have almost entirely separated them from the inhabitants of the plain. One or two Cimerrons might occasionally have been attracted hither, but no such instance is remembered. The inhabitants of the Isarog are commonly, though mistakenly, called Igorots; and I retain the name, since their tribal relationship has not yet been accurately determined; they themselves maintaining that their ancestors always dwelt in that locality. There are some who, in the opinion of the parish priest of Camarines, speak the Bicol language in the purest manner. Their manners and customs are very similar, in many respects, to what they were on the arrival of the Spaniards; and sometimes they also remind one of those prevailing among the Dyaks of Borneo at the present day." These circumstances give rise to the conjecture that they may be the last of a race which maintained its independence against the Spanish rule, and probably also against the little

\* The skull of a slain Igerot, as shown by Predestor Virolow's in-

tyrants who ruled over the plain before the arrival of the European. When Juan of Saleedo undertook his triumphal march reand North Luxon he found everywhere, at the neurant of the river, seafring tribes living under many chieftains who, after a short struggle, were slain by the superior discipline and better arms of the Spaniards, or submitted voluntarily to the superior race; but he did not seceed in substitute the interior and these are still to be found in all the larger island of the Philippine group.

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> ing of deleronerse

Similar conditions are found in many places in the Indian Archipelago. The Malays, carrying on trade and piracy, possess the shore, and their language prevails there; the natives being either subdued by them, or driven into the forests, the inaccessibility of which ensures to them a misrable but independent existence.

In order to best down the compensation states with scarces, the Spanish Obcorrenance, positions of the world reaces, the Spanish Obcorrenance, positions and two years under the pensity of one hundred blows and two years of forced labor, "or trade or to have any intercourse with the heather in the mountains who pay to tribute to the Carbon of the Carbon of the Carbon of the Carbon of the total carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the will be carbon of the Carbon of the Carbon of the Carbon of the will be carbon of the will be carbon of the the Carbon of the the Carbon of the the Carbon of the the Carbon of the the Carbon of the

<sup>•</sup> Pignétia frand, Anthona inhaláted by Mesca (Medremendana) and haulhest 1920 the firm conversed the sreducer, the latter the laterior. In the hirder of Brass (Brosser and Brass) are no shoulheld by Moore, and the other, leger that the lat stating curries one shoulheld by Moore, and The differ senses a that Sunners ("Voyage our Index") worker. In beather that the later is the later of the different of the through the later.

The number of the Igorots of the Isarog has, however, Christian been much diminished by deadly battles between the different ranchos, and by the marauding expenditions which, until a short time since, were annually undertaken by the commissioners of taxes, in the interest of the Government monopoly, against the tobacco fields of the Igorots. Some few have been "pacified" (converted to Christianity and tribute); in which case they are obliged to establish themselves in little villages of scattered huts, where they can be occasionally visited by the priest of the nearest place; and, in order to render the change easier to them, a smaller tax than usual is temporarily imposed upon such newly-obtained subjects.

I had deferred the ascent of the mountain until the Pulsers beginning of the dry season of the year; but I learned in Naga that my wish was hardly practicable, because the expeditions against the ranchos of the mountain, which I have already mentioned, usually occurred about this time. As the wild people could not understand why they should not cultivate on their own fields a plant which had become a necessity to them, they saw in the Cuadrilleros, not functionaries of a civilized State, but robbers, against whom they were obliged to defend themselves by force; and appearances contributed no less to confirm them in their error; for these did not content themselves with destroying the plantations of tobacco, but the huts were burnt to the ground, the fruit-trees hewn down, and the fields laid waste. Such forays never occurred without bloodshed, and often developed into a little war which was carried on by the mountaineers for a long time afterwards, even against people who were entirely uninterested in it-Filipines and Europeans. The expedition this year was to take place in the beginning of April; the Igorots consequently were in a state of great agitation, and

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had, a few days previously, murdered a young unarmed Spaniard in the vicinity of Mabotoboto, at the foot of the mountain, by bringing him to the ground with a noisened army, and afterwards inflicting twenty-one wounds with the wood-knife (bolo).

Fortunately there arrived soon after a countermand from Manila, where the authorities seemed to have been gradually convinced of the harmful tendency of such violent measures. It could not be doubted that this intelligence would quickly spread amongst the ranches; and, acting upon the advice of the commandant (upon whom, very much against his inclination, the conduct of the expedition had devolved). I lost no time in availing myself of the anticipated season of quiet. The Government have since adopted the prudent method of purchasing the tobacco, which is voluntarily cultivated by the Igorots, at the ordinary rate, and, where practicable, encouraging them to lay out new fields

instead of destroying those in existence. The next day at noon I left Naga on horseback. The pueblos of Mogargo, Canaman, Quipayo, and Calabanga, in this fertile district follow so thickly upon one another that they form an almost uninterrupted succession of houses and gardens. Calabanga lies half a league from the sea, between the mouths of two rivers, the more southerly of which is sixty feet broad and sufficiently

deep for large trading vessels."

The road winds round the foot of the Isarog first to the north-east and then to the east. Soon the blooming hedges cease, and are succeeded by a great bare plain, out of which numerous flat hillocks raise themselves. Both hills and plain, when we passed, served for pasturage; but from August to January they are sown with rice; and fields of batata are occasionally seen. After four hours we arrived at the little village

of Maguiring (Manguirin), the church of which, a tumbledown shed, stood on an equally naked hillock; and from its neglected condition one might have guessed that the priest was a native

This hillock, as well as the others which I examined Management consisted of the dibris of the Isarow, the more or less decomposed trachytic fragments of homblende rock, the spaces between which were filled up with red sand The number of streams sent down by the Isarov, into San Miguel and Lagonoy bays, is extraordinarily large. On the tract behind Maguiring I counted, in threequarters of an hour, five considerable estuaries, that is to say, above twenty feet broad; and then, as far as Goa. twenty-six more; altogether, thirty-one; but there are more, as I did not include the smallest; and yet the distance between Maguiring and Goa, in a straight line. does not exceed three miles. This accounts for the enormous quantity of steam with which this mighty condenser is fed. I have not met with this phenomenon on any other mountain in so striking a manner. One very remarkable circumstance is the rapidity with which the brimming rivulets pass in the estuaries, enabling them to carry the trading vessels, sometimes even ships, into a main stream (if the expression may be allowed). while the scanty contributions of their kindred streams on the northern side have scarcely acquired the importance of a mill-brook. These waters, from their breadth. look like little rivers, although in reality they consist of only a brook, up to the foot of the mountain, and of a river's mouth in the plain; the intermediate part being

The country here is strikingly similar to the remark. Conjunious able mountain district of the Gelungung, described by Membie

obsent

Junghuhn:\* vet the origin of these rising grounds differs in some degree from that of those in Java. The latter were due to the eruption of 1822, and the great fissure in the wall of the crater of the Gelungung, which is turned towards them, shows unmistakably whence the materials for their formation were derived; but the great chasm of the Isarog opens towards the east, and therefore has no relation to the numberless hillocks on the north-west of the mountain. Behind Maguiring they run more closely together, their summits are flatter, and their sides steeper; and they pass gradually into a gently inclined slope, rent into innumerable clefts, in the hollows of which as many brooks are actively employed in converting the angular outlines of the little islands into these rounded hillocks. The third river behind Magniring is larger than those preceding it; on the sixth lies the large Visits of Borobod; and on the tenth, that of Ragay. The rice fields cease with the hill country, and on the slone, which is well drained by deep channels, only wild cane and a few groups of trees grow. Passing by many villages, whose huts were so isolated and concealed that they might remain unobserved, we arrived at five o'clock at Tagunton; from which a road, practicable for carabao carts, and used for the transport of the abacá grown in the district, leads to Goa; and here, detained by sickness, I hired a little house, in which I lay for nearly four weeks, no other remedies offering themselves to me

but hunger and repose. During this time I made the acquaintance of some newly-converted Igorots, and won their confidence. Without them I would have had great difficulty in ascending the mountains as well as to visit their tribe in its

farms without any danger.\* When, at last, I was able to out Goa, my friends conducted me, as the first sten to their settlement; where, having been previously recommended and expected. I easily obtained the requisite number of attendants to take into their charge the animals and plants which were collected for me

On the following morning the ascent was commenced. A huston Even before we arrived at the first rancho, I was convinced of the good report that had preceded me. The master of the house came towards us and conducted us by a narrow path to his hut, after having removed the foot-lances, which projected obliquely out of the

-- Tirmest ground, but were dexterously concealed by brushwood and leaves.† A woman employed in weaving, at my desire continued her occupation. The loom was of the simplest kind. The upper end, the chain-hearn which consists of a piece of bamboo, is fixed to two bars or nests: and the weaver sits on the ground, and to the two notched ends of a small lath, which supplies the place of the weaving beam, hooks on a wooden how, in the arch of which the back of the lath is fitted. Placing her feet against two pegs in the ground and bending her back she, by means of the bow, stretches the material out straight. A netting-needle, longer than the breadth of the web, serves instead of the weaver's shuttle, but

it can be pushed through only by considerable friction, and not always without breaking the chains of threads. A lath of hard wood (caryota), sharpened like a knife, represents the trestle, and after every stroke it is placed upon the edge; after which the comb is pushed \* An intelligent mestico frequently visited me during my elekases. ing to his miscentageon measures (requirently wintered res during my addresses. Accord-ing to his intercernite, hearies the copper (adecady) remissions, could in force in three placers, and cover goal and force on sees to be lessed. To the same soon I which the weak of the laws course from a contract of Community, ordering from Lorgar Force and which two weak to have course from a contract, our length of the Lorgar from Lorgar resistant. Similar sixuals are also soon to be (out-al on the Varias Productions, and on a small lateral closes to the Varias Productions.) f They are made of harobes.

forward, a thread out through, and struck fast, and so forth. The web consisted of threads of the abaciwhich were not spun, but tied one to another The huts I visited deserve no special description.

Composed of bamboos and palm-leaves, they are not essentially different from the dwellings of poor Filipinos; and in their neighborhood were small fields planted with batata, maize, caladium and sugar-cane and enclosed by magnificent polypody ferns. One of the highest of these, which I caused to be felled for the purpose, measured in the stem nine meters, thirty centimeters; in the crown, two meters, twelve centimeters; and its total length was eleven meters, forty-two centimeters or over thirty-six feet

A young lad produced music on a kind of lute, called buringbau; consisting of the dry shaft of the scilamina stretched in the form of a bow by means of a thin tendril instead of gut. Half a coco shell is fixed in the middle of the bow, which, when playing, is placed against the abdomen, and serves as a sounding board; and the string when struck with a short wand, gave out a pleasing humming sound, realising the idea of the harp and pleetrum in their simplest forms. Others accompanied the musician on Jews' harps of bamboos, as accurate as those of the Mintras on the Malay Peninsula; and there was one who played on a guitar, which he had himself made, but after a European pattern. The hut contained no utensils besides bows, arrows, and a cooking pot. The possessor of clothes bore them on his person. I found the women as decently cled as the Filipino Christian women, and carrying, besides, a forest knife, or bolo. As a mark of entire confidence, I was taken into the tobacco fields, which were well concealed and protected by foot-lances; and they appeared to be carefully looked after.

The result of my familiarity with this people, both 74s sends and

before and after this opportunity, may be briefly summed up: They live on the higher slopes of the mountain. never, indeed, below 1,500 feet; each family by itself. It is difficult to ascertain how many of them there may now he as but little intercourse takes place amongst them. In the part of the mountain belonging to the

district of Gos, their number is estimated at about fifty men and twenty women, including the children: but

twenty years before the population was more numerous. Their food consists principally of balata, besides some gabi (colodium). A little maize is likewise cultivated, as well as some ubi (dioscores), and a small quantity of sugar-cane for chessing. In laying out a batata field, a wood is partially cleared. Access. the earth loosened with the blunt forest knife (bolo), and

the bulbs or layers then planted; and within four months the harvest begins, and continues uninterruptedly from the time the creeping plant strikes root and forms tubers-After two years, however, the produce is so much dimin. Besses of ished that the old plants are pulled up, in order to

make room for new ones obtained from the runners. The field is then changed, or other fruits cultivated thereon, but with the addition of manure. A piece of land, fifty brazas long, and thirty wide, is sufficient for

the support of a family. Only occasionally in the wet season does this resource fail, and then they resort to eabi, which appears to be as easily cultivated on wet as on dry ground, but is not so profitable as batata. The

young shoots of the gabi are planted at distances of a vara, and if consumed in a proper manner, ought not to be cropped till after a year. Each family kills weekly one or two wild hors. Stags are rare, although I ob-

tained a fine pair of homs; and they do not use the skin. Bows and arrows are used in hunting; some poisoned,

Gane cooks a Spraint and some not. Every rancho keeps dogs, which live principally on builds, and also cats to protect the fields against rats; and they also have poultry, but no game cocks; which, having been first introduced into the Philippines by the Spaniards, are seldom, if ever, wanting in the huts of the Filipinos; but the inhabitants of the Landa are as we free from this peasion.

Trair.

The few products of a more advanced civilization which they require, they obtain by the sale of the spontaneous productions of their forests, chiefly was an and resin (spill), "apinis, designing in & Istind of copab), and some few copabilities of the spill of the s

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pulated price.

Physicians and magicians, or persons supposed to be possessed of secret powers, are unknown; every one helps hisself. In oceto carriev as clear understanding of their religious views, a longer intercourse would be necessary. But they certainly believe in one Ogd., or, at least, say to, when they are closely questioned by Christians; and have also loosely acquired several of the external practices of Catholicism, which they combot as most processor.

Bespect for

Hunting and hard labor constitute the employment of man in general, as well as in the Philippines. The practice of employing women as beasts of burden which, although it exists among many of the peoples of Europe, for example, the Basques, Wallachians, and

<sup>.</sup> The frest of the wild pill is used for food.

Portuguese, is almost peculiar to barbarous nations. seem to have been lost in the Philippines as far back as the time of its discovery by the Spaniard; and even among the wide people of the Lange, the women engage only in light labor, and are well treated. Every family supports its aged and those until for labor. Headaches and fevers were stated to me as the prevalent maladies; Morious for which hurst size, nounded and revent of the State of

only in light labor, and are well treated. Every family susperst is saged and those units for labor. Headenbean and levers were stated to me as the prevalent mandles; for five which burnt ince, pounded and maked to a pay with for which burnt ince, pounded and maked to a pay with each to the proper of the proper of the proper of the sake they make an incision in the forement of its way have able they make an incision in the forement of the same able they make an incision in the forement of the same their prevalence is explained by the habit of neutralizing the life ficts of drinking water in excess, when they are heated, by the consumption of warm water in large dozer; and the rule holds with regard to coco-water; their muscular power is small, and they are not able to carry more than shifty pounds whight to any cotain.

Seedes the chase and agriculture, their occupations Meandained are restricted to the manufacture of extremely rude weapons, for which they purchase the too, when required, from the Pilipinos, and of the opares when the property of the pro

On the whole, they are peaceful and honorable towards. Low's cannot can't other, although the idle occasionally steal the fruits of the fields; and, should the third be caught, the person robbed punishes him with blows of the rattan, without being under any apprehensions of vengeance in contequence. If a man dies, his nearest kinsnen go out to require his death by the death of some other individual,

the head, and the rest follow him as long as they are able;

ON THE FORMER PHILIPPINES THRU FOREIGN EVEN

taken at random. The rule is strictly enforced. For a dead man a man must be killed: for a woman a woman and for a child a child. I Inless indeed it has a friend they encounter, the first victim that offers is killed Latterly, however, owing to the unusual success attained by some of them in representing the occurrence of death as an unavoidable destiny, the custom is said to have fallen into desuetude; and the relatives do not exact the satisfaction. This was easy in the case of the decessed being an ordinary person; but, to the present day vengeance is required in the event of the death of a beloved child or wife. If a man kills a woman of another house, her nearest kinsman endeavors to kill a woman of the house of the murderer; but to the murderer himself he does nothing; and the corpse of the victim thus slain as a death-offering is not buried, nor is its head cut off; and her family, in their turn, seek to avenge the death by murder. This is reckoned the most honorable course. Should the murderer, however, be too strong to be so overcome, any weaker person, be it who it may, is slain in retaliation; and hence, probably, the comparatively small number of women.

Debygmon is permitted; but even the most courageous and skilful selden or never have more than one swife. A young man wishing to marry commissions his father to treat with the father of the bridge as to the price; which latterly has greatly increased; but the average is en bolos, costing from four to six reals each, and is en bolos, costing from four to six reals each, and the support of the price of the same of the sequential to a support of the same of the

be many of them, almost nothing remains for the father, who has to give a great feast, on which occasion much

palm-wine is drunk.

Any man using violence towards a girl is killed by Second orange.

her parents. If the girl was willing and the father

her parents. If the girl was willing, and the father lears of it, he agrees upon a day with the former, on which he is to bring the bride's down; which he is to bring the bride's down; which should he refuse to do, he is caught by the relations, bound to a tree, and whipped with a cane. Adultery is of most rare occurrence; but, when it does take place, the down; is returned either by the weman, who then

most rare occurrence but, when it does take place, the down; in returned either by the woman, who then sequire her freedom, or by the seducer, whom she then sequire her freedom, or by the seducer, whom she then the seducer of the seducer of the seducer of the seducer of the takes the meney, or even if he hould refine it; but the latter contingency is not likely to arise, since that sum of money will enable into the buy for himself a new wife.

"Basira," 973 meters above Uncloy, and about 1,134 meters above these, extending from south-east to north-west between boty, precipious ranges, covered with vesself, its basic which has an inclination of 33", considered to the control of the cont

The road to the summit was very difficult on account ALAN MANIAL
of the slippery clay earth and the tough network of
plants; but the last five hundred feet were unexpectedly
easy, the very steep summit being covered with a very
thick growth of thinly leaved, knotted, mossy full-susia,
rholodoriniza, and other dwarf woods, whose innumerable

\* 17-375 Cent, or 63 For.-C.

tough branches, running at a very small height along the ground and parallel to it, form a compact and secure lattice-work, by which one mounted upwards as on a slightly inclined ladder. The point which we reached was evidently the highest spur of the horseshoe-shaped mountain side, which bounds the great ravine of Rungus on the north. The top was hardly fifty pages in diameter, and so thickly covered with trees that I have never seen its like; we had not room to stand. My active hosts, however, went at once to work, though the task of cutting a path through the wood involved severe labor, and, chopping off the branches, built therewith, on the tops of the looped trees, an observatory from which I should have had a wide panoramic view. and an opportunity for taking celestial altitudes had not everything been enveloped in a thick mist. The neighboring volcanoes were visible only in glimpses as well as San Miguel Bay and some lakes in the interior. Immediately after sunset the thermometer registered 12.5° R.\*

On the following morning it was still overcast: and when, about ten o'clock, the clouds became thicker, we set out on our return. It was my intention to have passed the night in a rancho, in order next day to visit a solfatara which was said to be a day's journey further; but my companions were so exhausted by fatigue that they asked for at least a few hours' reet

On the upper slope I observed no palms, with the exception of calamus: but polypodies (ferns) were very frequent, and orchids surprisingly abundant. In one place all the trees were hung, at a convenient height, with flowering aërids; of which one could have collected

<sup>15.6</sup> Cent or 60 Pag - C

they were not fit for any undertaking. With naked heads and bellies they squatted in the burning sun in order to replenish their bodies with the heat which they had lost during the bivouac on the summit; for they are not allowed to drink wine. When I finally left them on the following day, we had become such good friends that I was compelled to accept a tamed wild pig as a present. A troop of men and women accompanied me until they saw the glittering roofs of Maguiring, when, after the exchange of hearty farewells, they returned to their forests. The natives whom I had taken with me from Goa had proved so lazy and morose that nearly the whole task of making the path through the forest had fallen upon the Igorots. From sheer laziness they threw away the drinking water of which they were the porters: and the Igorota were obliged to fetch water from a considerable distance for our bivouse on the summit. In all my troublesome marches. I have always done better with Cimarrons than with the civilized natives. The former I have found obliging, trustworthy, active and acquainted with localities, while the latter generally displayed the opposite qualities. It would, however, be unjust to form a conclusive opinion as to their com-

was impossible to preserve it.

phenomena were entirely new.

thousands without any trouble. The most beautiful plant was a Medinella, of so delicate a texture that it

Jame's Tourists in the Dhillington.

Within a quarter of an hour north-east of Uarloy a Greenic considerable spring of carbonic acid bursts from the

ground, depositing abundance of calcargous sinter-

Our torches were quickly extinguished, and a fowl

covered with a cigar-box died in a few minutes, to the

supreme astonishment of the Igorots, to whom these

On the second day of rest, my poor hosts, who had Ferentia

accompanied me back to Uacloy, still felt so weary that

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in Europe.

Personal Arthur

parative merits from these facts; for the wild people are at home when in the forest; what they do is done voluntarily, and the stranger, when he possesses their confidence, is treated as a guest. But the Filipinos are reluctant companions, Polislas, who, even when they receive a high rate of wages, consider that they are acting most honorably when they do as little as possible. Atany rate, it is no pleasure to them to leave their village in order to become luggage-porters or beaters of roads on fatiguing marches in impracticable districts, and to camp out in the open air under every deprivation. For them. still more than for the European peasant, repose is the most agreeable refreshment. The less comfort any one enjoys at home, the greater is the reluctance with which he leaves it; and the same thing may be observed

As the Igorots were not permitted to have cocoanalms for the preparation of wine, vinegar and brandy, so that they might not infringe the monopoly of the government, they presented me with a petition entreating me to obtain this favor for them. The document was put together by a Filipino writer in so ludicrously confused a manner that I give it as a specimen of Philinnine clerkshin.\* At all events, it had the heat of results, for the petitioners were accorded twice as much as they had proved for

<sup>\*</sup> Sur Inagenter per B. M. (Roscherlas de Labul y Unedry congression Roscherlas Caption actualist de Roscherlas de Labul y Unedry congression Roscherlas (Experimental Caption actual Ca A. V. pedimes, y suplicance on humilded active power y mander, grade segun to c. implorames, etc. Domingo Talest, Jose Laurendonol.

The south-west monsoon lasts in this region (district Wash and of Goa) from April to October. April is very calm (navonación de señoras). From June to August the south-west winds blow steadily; March, April, and May are the driest months; there are shifting winds in March and the beginning of April: while from October to December is the time of storms; "S. Francisco (4th October) brings bad weather." Rice is planted in September and reaped in February.

FROM the Isarog I returned through Naga and Nabua Nt. Iriga. to Iriga, the ascent of which I at length accomplished.

The chief of the Montesinos had received daily rations for twenty-two men, with whom he professed to make a road to the summit: but when, on the evening of the third day, he came himself to Iriga, in order to fetch more provisions, on the pretext that the work still required some time for execution. I explained that I should endeavor to ascend the mountain on the following morning, and requested him to act as guide. He consented, but disappeared, together with his companions, during the night; the Filipinos in the tribunal having been good enough to hold out the prospert of severe punishment in case the work performed should not correspond to the working days. After fruitless search 75 west. for another guide, we left Buhi in the afternoon, and passed the night in the rancho, where we had previously been so hospitably received. The fires were still burning, but the inhabitants, on our approach, had fled-About six o'clock on the following morning the ascent began. After we had gone through the forest, by availing ourselves of the path which we had previously

400 mls

Change in

beaten, it led us through grass three or four feet in height. with keen-edged leaves; succeeded by cane, from seven to eight feet high, of the same habitat with our Arando phragmites (but it was not in flower), which occupied the whole of the upper part of the mountain as far as the edge. Only in the ravine did the trees attain any height. The lower declivities were covered with aroids and ferns; towards the summit were tendrils and mosses: and here I found a beautiful, new, and peculiarly shaped orchid.\* The Cimarrons had cut down some cane; and, beating down our road for ourselves with bolos, we arrived at the summit a little before ten o'clock. It was very foggy. In the hope of a clear evening or morning I caused a hut to be erected, for which purpose the cane was well fitted. The natives were too lazy to erect a lodging for themselves, or to procure wood for a watchfire. They squatted on the ground, squeezed close to one another to warm themselves, ate cold rice, and suffered thirst because none of them would fetch water. Of the two water-carriers whom I had taken with me, one had "inadvertently" upset his water on the road, and the other had thrown it away "because he thought we

should not require it." I found the highest points of the Iriga to be 1.212 meters, 1,120 meters above the surface of the Buhi

Lake. From Buhi I went to Batu.

The Batu Lake (one hundred eleven meters above the sea) had sunk lower since my last visit in February. The carpet of algae had increased considerably in breadth, its upper edge being in many places decomposed; and the lower passed gradually into a thick consistency of putrid water-plants (charae, algae, pontederiae, valisneriae, pistiae, etc.), which encompassed the surface of the water so that only through a few gaps could one reach the bank. · Beadonian crosse, Reichenbach.

Right across the mouth of the Quinali lies, in the lake, a har of black mud, the softest parts of which were indicated by some insignificant channels of water. As we could not get over the bar in a large boat, two small skiffs were bound together with a matting of bamboo. and provided with an awning. By means of this contrivance, which was drawn by three strong carabaos (the whole body of men with evident delight and loud mirth wading knee-deep in the black mud and assisting by pushing behind) we succeeded, as if on a sledge, in getting over the obstacle into the river; which on my first visit overflowed the fields in many places, till the huts of the natives rose out of the water like so many ships: but now (in June) not one of its channels was full. We were obliged in consequence to continue our sledge journey until we were near to Ouinali.

part of the place, together with the tribunal and convent, having been burnt down since my last visit. After making the necessary preparations. I went in the evening to Barayong, a little rancho of Cimarrons at the foot of the Mazaraga, and, together with its inhabitants, Asset of ascended the mountain on the following morning. The women also accompanied us for some distance, and kept the company in good humor; and when, on the road, a Filipino who had been engaged for the purpose wished to give up carrying a bamboo full of water, and, throwing it away, ran off, an old woman stepped forward in his stead, and dragged the water cheerfully along up to the summit. This mountain was moister than any I had ever ascended, the Semeru in Java, in some respects, excepted; and half-way up I found some rotten rafflesia.\*

Two miserable-looking Cimarron dogs drove a young stag towards us, which was slain by one of the people \* Bufferin Camingii R. Bersen, according to Dr. Kuhn-

At Ligao I alighted at a friendly Spaniard's, a great

way up but it was not difficult to get through the

THE TOP WER PULL I PRIVES THE POSTERY FEES with a blow of his bolo. The path ceased a third of the

wood. The upper portion of the mountain, however being thickly overgrown with cone again presented great obstacles. About twelve we reached the summitlevel, which, pierced by no crater, is almost horizontal. smoothly arched, and thickly covered with cane. Its height is 1.354 meters. In a short time the indefatigable Cimarrons had built a fine large but of cane; one room for myself and the baggage, a large assembly-room for the people, and a special apartment for cooking. Unfortunately the cane was so wet that it would not burn. In order to procure firewood to cook the rice. thick branches were got out of the wood, and their comparatively dry pith extracted with great labor. The lucifer-matches, too, were so damp that the phosphorus was rubbed away in friction; but, being collected on blotting-paper, and kneaded together with the sulphurous end of the match-wood, it became dry and was kindled by friction. Not a trace of solid rock was to be seen. All was obstructed by a thick overgrowth from where the path ceased, and the ground covered with a dense bed of damp wood-earth. The following morning was fine, and showed a wide panorama; but, before I had completed my drawing, it again became misty; and as, after several hours of waiting, the heavens were overspread with thick rain-clouds, we set out on our return. Numerous butterflies swarmed around the summit. We could, however, catch only a few, as the passage

over the cane-stubble was too difficult for naked feet: and, the badly-stitched soles of two pairs of new shoes which I had brought from Manila having dropped off some time before I reached the summit, I was compelled

to perform the journey to Ligno barefoot.

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On the following day my Spanish host went twice Notice contempt

to the tribunal to procure the carabao carts which were for private necessary for the furtherance of my collections. His

courteous request was unsuccessful; but the command of

the parish priest, who personally informed the Gober-

nadorcillo in his house, was immediately obeyed. The

Filipino authorities have, as a rule, but little respect

for private Spanish people, and treat them not seldom with open contempt. An official recommendation from

the alcalde is usually effectual, but not in all the provin-

ces; for many alcaldes do hurt to their own authority

by engaging the assistance or connivance of the native

magistrates in the furtherance of their personal interests.

I here shot some panities, great bats with wings nearly Giant hate.

five feet wide when extended, which in the day time hang asleep from the branches of trees, and, among

them, two mothers with their young sucking ones uninjured. It was affecting to see how the little animals

clung more and more firmly to the bodies of their dying

days, until I at length placed them in spirits.

day; and the road between Albay and Lenasti was worse than ever. During my visit information arrived from the commandant of the falues on the south coast that.

made their appearance, in order to cut off his return; Hero picules.

parents, and how tenderly they embraced them even after these were dead. The apparent feeling, however, was only self-interest at bottom, for, when their store of

milk was exhausted, the old ones were treated without respect, like empty bottles. As soon as the young ones were separated, they fed on bananas, and lived several

alcalde at Albay. We were now (June) in the middle of the so-called dry season, but it rained almost every

Early in the morning I rode on the priest's horse to A audio Legaspi, and in the evening through deep mud to the dy seems.

as he was pursuing two pirate vessels, six others suddenly. Poor of

for which reason he had quickly made his way back. The faluas are very strongly manned, and provided with cannon, but the crews furnished by the localities on the coast are entirely unpractised in the use of fire-arms, and moreover hold the Moros in such dread that, if the smallest chance offers of flight, they avail themselves of it to ensure their safety by making for the land. The places on the coast, destitute of other arms than wooden pikes, were completely exposed to the pirates, who had firmly established themselves in Catanduanes, Biri, and several small islands, and seized ships with impunity, or robbed men on the land. Almost daily fresh robberies and murders were announced from the villages on the shore. During a plundering expedition the men caught are employed at the oars and at its close sold as slaves; and, on the division of the soul. one of the crew falls to the share of the dato (Moro chief) who fitted out the vessel.\* The coasting vessels in these waters, it is true, are mostly provided with artillery, but it is generally placed in the hold of the ship, as no one on board knows how to use it. If the cannon be upon deck, either the powder or the shot is wanting; and the captain promises to be better prepared next time t The alcalde reported the outrages of the pirates by every post to Manila, as well as the great injury done to trade, and spoke of the duty of the Government to protect its subjects, especially as the latter were not permitted to use fire-arms:t and from the

frees Gerren.

\* According to B. Berneldez ("Guerre el Sur") the number of Speniaria and Pilipinos kidnessed and killed within there years programed to tweete the program. The right inten Nav (Mexican gallean) noted in this way. If The middle faller Nov. Obtained an action in motion in the way.

Extract from a titler of the adolghe on the equilate general, June 18, Vill.

Extract from a titler of the adolghe on the equilate general, June 18, Vill.

The state of the extraction of the state of the extraction of Som Mixtury, two torgoes from Tables, and interrupt the communication while the best of Continuous and the sense and of the state of the properties of Som Mixtury, and the state of Som Mixtury and the state of the

. Bisavan Islands came the same cry for help. The Government, however, was powerless against the evil If the complaints were indeed very urgent, they would

send a steamer into the waters most infested; but it hardly ever came in sight of pirates, although the latter behind.

were carrying on their depredations close in front and At Samors the principal town, I subsequently met Greenway with a Government steamer, which for fourteen days denser past had been nominally engaged in cruising against the pirates; but the latter, generally forewarned by their spies.

perceive the amoke of the steamers sufficiently soon to slip away in their flat boats; and the officers knew beforehand that their cruise would have no other result than to show the distressed provinces that their outers was not altogether unnoticed.\* Twenty small steam gunboats of light draught had steen shortly before been ordered from England, and were embasisment

nearly ready. The first two indeed arrived soon after in Manila (they had to be transported in pieces round the Cape), and were to be followed by the rest; and they were at one time almost successful in delivering the archipelago from these burdensome pests;† at least, from the proscribed Moros who came every year from the Sulu Sea, mostly from the island of Tawitawi, arriving in May at the Bisayas, and continuing their depredations in the archipelago until the change of the monsoon The Chemister's time It was soon were. The securities is usual results were supported by the control of the con

warrs they were at track has week.

According to the Date's of Habits, Merch 14, 1855, pirroy on the sea had
the mission, but had set created. They are, Calemises, Mindees, Mindees,
Mindees, Mindees, Mindees, They are,
most the Bassys still safer from it. Bobberies and helizarpine are to be
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and the Bassys of the Mindees are to be proportionally the severily according to my their according, places in galaxy.

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In the Philippines they gained new recruits among vagabonds, deserters, runaway criminals, and ruined spendthrifts; and from the same sources were made up the bands of highway robbers (tulisanes), which sometimes started up, and perpetuated acts of extraordinary daring. Not long before my arrival they had made an inroad into a suburb of Manila, and engaged with the military in the highways. Some of the latter are regularly employed in the service against the tulisanes. The robbers are not, as a rule, cruel to their victims when no opposition is offered t

In Legaspi I found awaiting me several chests with tin lining, which had been sixteen months on their passage by overland route, instead of seven weeks, having been conveyed from Berlin by way of Trieste. on account of the Italian war. Their contents, which had been intended for use in the Philippines exclusively. were now for the most part useless. In one chest there were two small flasks with glass stoppers, one filled with moist charcoal, and the other with moist clay, both

\*The Speciends attempted the conquest of the Statu Islands in 1638, 1429 The approximate attemptes the conquers of the Entry Section in 1018, 1747, 1803, 1731, and 1745; and frequent expeditions have since taken place by way topologis. A great expedition was likewise sent out in October, 1871, surrous termine. A reset remaining was there may not in October, 1871, agricus state, the contract of forced, off one venture to taked, in a well-empired band of a first thousand man-dest recents of handering the generates bared down to make the man-dest recents of handering the generates and the exception, but drew bank when the weeken adversed to the configuration of the exception, but drew bank when the correlates adversed to the configuration of the second part of the configuration of the configurat

The Discis de Hands of June e, 1866, storest-"Yesterday the military The Dirici of Manile of June 4, 1966, storest—"Vestering the military correspond, exceptible by registrate of the Jul Angust, 1965, discontinued in faculties. The certainty relationship of the Company of the Company

containing seeds of the Victoria Regia and tubers of red and blue nymphae (water-lily). Those in the first flask were spoiled, as might have been expected; but in that filled with moist clay two tubers had thrown out shoots of half an inch in length, and appeared quite sound. I planted them at once, and in a few days vigorous leaves were developed. One of these beautiful plants, which had been originally intended for the Buitenzorg Garden in Java, remained in Legaspi; the other I sent to Manila. where, on my return, I saw it in full bloom. In the charcoal two Victoria seeds had thrown out roots above an inch in length, which had rotted off. Most likely they had been torn up by the custom-house inspectors, and had afterwards rotted, for the neck of the bottle was broken. and the charcoal appeared as if it had been stirred. communicated the brilliant result of his mode of packing to the Inspector of the Botanical Gardens at Berlin. who made a second consignment direct to Java, which arrived in the best condition; so that not only the Victoria, but also the one which had been derived in Berlin from an African father and an Asiatic mother, now adorn the water-basins of Java with red pond-roses (the latter plants probably those of the Philippines also).

Being compelled by the continuous rain to dry my Granting collections in two ovens before packing them, I found that my servant had burned the greater part, so that the remains found a place in a roomy chest which I purchased for a dollar at an auction. This unfortunately lacked a lid; to procure which I was obliged, in the first place, to liberate a carpenter who had been imprisoned for a small debt; secondly, to advance money for the purchase of a board and the redemption of his tools out of pawn; and even then the work, when it was begun, was several times broken off because previous claims of violent creditors had to be discharged by labor. In

five days the lid was completed at the cost of three dollars. It did not last long, however, for in Manila I

dollars. Te did not last long, robovects, or has been plant to get it repaired to me off on an opportunity to reach the islant of Samari in a small schooner. It is situated of Samari in a small schooner. It is situated of Sam Bernardion, which is three leagues in breadth. At the moment of the control of the state of the state of Samari in a small schooner. At the moment of "one her might reach read to the state of the

called the "Spaniard of Cavite." Roving from one place to another was his delight; and he quickly acquired acquaintances. He knew especially how to gain the favor of the ladies, for he possessed many social accomplishments, being equally able to play the guitar and to milk the carabao-cows. When we came to a pueblo, where a mestiza, or even a "daughter of the country" (creole), dwelt, he would, when practicable, ask permission to milk a cow; and after bringing the señora some of the milk, under pretext of being the interpreter of my wishes. he would maintain such a flow of ingeniously courteous conversation, praising the beauty and grace of the lady, and most modestly allowing his prodigious travelling adventures to be extracted from him, that both knight and esquire beamed with brilliant radiance. A present was always welcome, and brought us many a little basket of oranges; and carabao milk is excellent with chocolate: but it seemed as if one seldom has the opnortunity of milking a cow. Unfortunately Pepe did not like climbing mountains, and when he was to have gone with me he either got the stomach-ache or gave

away my strong shoes, or allowed them to be stolen:

the native ones, however, being allowed to remain untouched, for he lense well that they were fit only for riding, and derived comfort from the fact. In company with me he worked quickly and therefully) that, when alone, it becenite refeature to the control of the comsistency of the company of the company of the comlance of the company. The company of the comtangement is to hind, which therefore became partial and had to be thrown away. Packing was still more disagreeable to hin, and consequently he did it sequeltied as possible, though not shawys with sufficient care, as on one excession he ted up, in own and chooselars. Notstock, arrentice-neither than the company of the comsistency of the company of the company of the comstance, arrentice-neither for the company of the comtangement of the company of the company of the comtangement of the company of the company of the comtangement of the company of the company of the comtangement of the company of the company of the comtangement of the company of the compa

shoes, arsenie-soap, órawings, and chocolate. Notwithstanding trilling faults of this linds, he was very useful and agreeable to me; but he did not go willingly to such an unevilleid island as Samar; and when he received his weges in tull for eight months all in a lump, and so became a small capitalist, he could not resist the temptation to rest a little from his labors.

## XIX

This binds of Samar, which is of nearly thomboldal sevecution, and with five indentation on its coasts, atteches from the north-west to the south-east from 12° 30° to 10° 54′ N; its men length being tenepty-two miles, in breadth cieven, and its area two hundred asquare miles. It is the south-east two the samal square miles. It is so from the liadm of Leyte, with which it was formerly united into one province. At the present time each island has its spearing governor.

By the older authors the island is called Tendaya, Feen Ibabao, and also Achan and Filipina. In later times the eastern side was called Ibabeo, and the weatern

Samar, which is now the official denomination for the whole island, the eastern shore being distinguished as the

Contracosta \* As on the eastern coasts of Luzon, the north-east monsoon here exceeds that from the south-west in duration and force, the violence of the latter being arrested by the islands lying to the southwest, while the northeast winds break against the coasts of these easterly islands with their whole force, and the additional weight of the body of water which they bring with them from the open ocean. In October winds fluctuating between north-west and north-east occur; but the prevalent ones are northerly. In the middle of November the portheast is constant: and it blows, with but little intermission, from the north until April. This is likewise the rainy season. December and January being the wettern when it sometimes rains for fourteen days without interruntion. In Lauang, on the north coast, the rainy season lasts from October to the end of December. From January to April it is dry: May, June, and July are rainy; and August and September, again, are dry; so that here there are two wet and two dry seasons in the year. From October to January violent storms (baguios or typhoons) sometimes occur. Beginning generally with a north wind, they pass to the north-west, accompanied by a little rain, then back to the north, and with increasing violence to the north-east and east, where they acquire their greatest power, and then moderate

A. Areselling to Aresia, ("Mestrian," 211 Alboy was formerly called blaken Tryschen, Calleys, Danes, and Carten, Rugers, Ruglang, Calley, Edward, Marken, Mahiji Santar, Bahbari and Bartan, Nargers, Ruglang, Calleys, Calleys, Mahiji Santar, Bahbari and Daniely Alexander, Mahiji Santar, Bahbari and Calleys, Calleys, "Mestrian Market Phartic Calleys, and Market Ph

to the south. Sometimes, however, they change rapidly from the east to the south, in which quarter they first

acquire their greatest force From the end of March to the middle of June inconstant easterly winds (N.E.E. and S. E.) prevail, with a very heavy sea on the east coast. May is usually calm but in May and June there are frequent thunderstorms.

introducing the south-west monsoon, which though it extends through the months of July, August, and September, is not so constant as the north-east. The lastnamed three months constitute the dry season, which however, is often interrupted by thunderstorms. Not a week, indeed, passes without rain; and in many years a storm arises every afternoon. At this season of the year ships can reach the east coast; but during the northeast monsoon navigation there is impossible. These general circumstances are subject to many local deviations, particularly on the south and west coasts, where the uniformity of the air currents is disturbed by the mountainous islands lying in front of them. According to the Extedo geografico of 1855, an extraordinarily high tide, called dolo, occurs every year at the change of the monsoon in September or October. It rises sometimes sixty or seventy feet, and dashes itself with fearful violence against the south and east coasts, doing great damage, but not lasting for any length of time. The climate of Samar and Leyte appears to be very healthy on the coasts; in fact, to be the best of all the islands of the archipelago. Dysentery, diarrhoes, and fever occur less frequently than in Luzon, and Europeans also are less subject to their attacks than in that place

The civilized natives live almost solely on its coasts, Only the and there are also Bisayans who differ in speech and manners from the Bicols in about the same degree that the latter do from the Tagaloga. Roads and villages

are almost entirely wanting in the interior, which is covered with a thick wood, and affords sustenance to independent tribes, who carry on a little tillage (vegetable roots and mountain rice), and collect the products of the woods, particularly resin, honey, and wax, in which the island is very rich.

On the 3rd of July we lost sight of Legaspi, and, detained by frequent calms, crawled as far as Point Montufar, on the northern edge of Albay, then onwards to the small island of Viri, and did not reach Lauang before evening of the 5th. The mountain range of Bacon (the Pordol of Coello), which on my previous journeys had been concealed by night or mist, now revealed itself to us in passing as a conical mountain; and beside it tonused a very precipitous deeply-cleft mountain-side, apparently the remnant of a circular range. After the pilot, an old Filipino and native of the country, who had made the journey frequently before, had conducted us, to begin with, to a wrong port, he ran the vessel fast on to the bar, although there was sufficient water to sail into the harbor conveniently.

The district of Laugner (Labuan), which is encumbered with more than four thousand five hundred inhabitants. is situated at an altitude of forty feet, on the southwest shore of the small island of the same name, which is sengrated from Samar by an arm of the Catubig. According to a widely-spread tradition, the settlement was originally in Samar itself, in the middle of the rice-fields. which continue to the present day in that place, until the repeated inroads of sea-pirates drove the inhabitants. in spite of the inconvenience attending it, to protect themselves by settling on the south coast of the little island, which rises steeply out of the sea.\* The latter

sention is made of it is the Estado geography of the Franciscons.

consists of almost horizontal banks of tufa, from eight to twelve inches in hiddeness. The strate being continually exten savey by the waves at low watermark; the upper layers beread off; and thus the uppermost parts of the strata, which are of a tolerably uniform thickness, are cleft by vertical fissures, and look like the walls of a fortress. Pressed for space, the church and the convent have taken up very level lit of the rock at various heights; and the effects of this accommodation and the contract of the contract o

The place is beautifully situated; but the houses are Detricular not so frequently as formerly surrounded by little gardens while there is a great want of water, and foul odors prevail. Two or three scanty springs afford a muddy, brackish water, almost at the level of the sea, with which the indolent people are content so that they have just enough. Wealthy people have their water brought from Samar, and the poorer classes are sometimes compelled, by the drying up of the springs, to have recourse to the same place. The spring-water is not plentiful for bothing nurnous: and, sen-bathing not being in favor, the people consequently are very dirty. Their clothing is the same as in Luzon; but the women wear no lanis, only a cawisa (a short chemise, hardly covering the breast), and a saya, mostly of coarse, stiff guinara, which forms ugly folds, and when not colored black is very transparent. But dirt and a filthy existence form a better screen than opaque garments. The inhabitants of Louang rightly, indeed, enjoy the reputation of being very idle. Their industry is limited to a little tillage, even fishing being so neglected that frequently there is a scarcity of fish. In the absence of roads by land, there

ristation e Maron THE CORNER PHILIPPINES THEO POWERS EYES

is hardly any communication by water; and trade is mostly carried on by mariners from Catbalogan, who evelonge the surplus of the harvests for other produce. From the convent a view is had of part of the island

of Samar, the mountain forms of which appear to be a continuation of the horizontal strata. In the centre of the district at the distance of some miles, a table mountain, famous in the history of the country, towers aloft. The natives of the neighboring village of Palapat retreated to it after having killed their priest, a too covetous Jesuit father, and for years carried on a guerilla warfare with the Spaniards until they were

· finally overpowered by treachery.

of 2000 may, during his viers, positived the wear a preserved in sugar are an agreeable confection.

The Palacet

The interior of the country is difficult to traverse from the absence of roads, and the coasts are much infested by pirates. Quite recently several pontins and four schooners, laden with abaca, were captured. and the crews crossly murdered their hadies having been cut to pieces. This, however, was opposed to their general practice, for the captives are usually emploved at the oars during the continuance of the foray. and afterwards sold as slaves in the islands of the Sulu sea. It was well that we did not encounter the pirates. for, although we carried four small cannons on board.

nobody understood how to use them.\* The governor, who was expected to conduct the election of the district officials in person, but was prevented by illness, sent a deputy. As the annual elections are conducted in the same manner over the whole country, that at which I was present may be taken as typical of the rest. It took place in the common hall; the gov-\* Small ships which have no connent about the provided with pineters filled with space and the fruit of the maxing-firecast areass, for the purpose of bewith white the protes, in the event of an attack, with the purpose of ne-speniating the pirates, in the event of an attack, with the correlater sistume, which causes a hurring heat. Detected "d'Uprille necessions that the inhabitents of Solo had, during his wist, palacoust the wells with the same fruit. The kernals

ernor (or his deputy) sitting at the table, with the pastor on his right hand, and the clerk on his left-the latter also acting as interpreter; while Cabezas de Barangay the gobernadorcillo, and those who had previously filled the office, took their places all together on benches First of all, six cabezas and as many gobernadorcillos are chosen by lot as electors; the actual gobernadorcillo is the thirteenth, and the rest quit the hall. After the reading of the statutes by the president, who exhorts the electors to the conscientious performance of their duty, the latter advance singly to the table, and write three names on a piece of paper. Unless a valid protest be made either by the parish priest or by the electors. the one who has the most votes is forthwith named gobernadorcillo for the coming year, subject to the approval of the superior jurisdiction at Manila; which, however, always consents, for the influence of the priest would provide against a disagreeable election. The election of the other functionaries takes place in the same manner, after the new gobernadorcillo has been first summoned into the hall, in order that, if he hafe any important objections to the officers then about to be elected, he may be able to make them. The whole affair was conducted very quietly and with dienity.\* On the following morning, accompanied by the oblig- Unstitute

ing priest, who was followed by nearly all the boys of the village, I crossed over in a large boat to Samar. Out of elven strong baggage porters whom the governor's representative had selected for me, four took possession of some trifling articles and sped ways with them, three

second and third tendency and first and second policemen and flatily, in said, then, a tendence, a pulse, and a policemen for each value. All three of the judges on he secondinates, but no exception can be trained. The first tendence must be taken from the higher class, the others may belong either to that or to the cosmen people. The policemen injunction or always of the latter class.

<sup>•</sup> There were also elected a terminate amount (deputy of the goleensadorello), a jiez mayor (superior judge) for the fields, who is should be exception; a second bridge for the policer a third judge for disputes relating to cattle; a great policer, and for and special policering politically, in solid second and third telement; and first and special policering politically in solid.

others hid themselves in the bush, and four had previously decamped at Lauang. The baggage was divided and distributed amongst the four porters who were detained. and the little boys who had accompanied us for their own pleasure. We followed the sea-shore in a westerly direction, and at a very late hour reached the nearest visita (a suburban chapel and settlement) where the priest was successful, after much difficulty, in supplying the places of the missing porters. On the west side of the mouth of the Pambujan a neck of land projects into the sea, which is a favorite resort of the sea-pirates, who from their shelter in the wood command the shore which extends in a wide curve on both sides, and forms the only communication between Lauang and Catarman. Many travellers had already been robbed in this place: and the father, who was now accompanying me thus far. had, with the greatest difficulty, escaped the same

The last part of our day's journey was performed very cautiously. A messenger who had been sent on had placed boats at all the mouths of rivers, and, as hardly any other Europeans besides ecclesiastics are known in this district, I was taken in the darkness for a Capuchin in travelling attire; the men lighting me with torches during the passage, and the women pressing forward to kiss my hand. I passed the night on the road, and on the following day reached Catarman (Caladman on Coello's map), a clean, specious locality numbering 6,358 souls, at the mouth of the river of the same name. Six pontins from Catbalogan awaited their cargots of rice for Albay. The inhabitants of the north coast are too indifferent sailors to export their products themselves, and leave it to the people of Catbalogan, who, having no rice-fields, are obliged to find employment for their activity in other places

danger only a few weeks before

1 pirate bus

Pethalopa nonopoly hterialopa

223

The river Catarman formerly emptied further to the Actuaged east, and was much choked with mud. In the year ther and a 1851, after a continuous heavy rain, it worked for itself, in the loose soil which consists of quartz sand and fragments of mussels, a new and shorter passage to the seathe present harbor, in which ships of two hundred tons can load close to the land; but in doing so it destroyed the greater part of the village, as well as the stone church and the priest's residence. In the new convent there are two salons, one 16.2 by 8.8, the other 9 by 7.6 paces in dimensions, boarded with planks from a single branch of a dipterocarpus (guiso). The pace is equivalent to 30 inches; and, assuming the thickness of the boards inclusive of waste, to be one inch, this would give a solid block of wood as high as a table (two and one-half feet), the same in breadth, eighteen feet in length, and of about one hundred and ten cubic feet.\* The houses are enclosed in gardens; but some of them only by fencing, within which weeds luxuriate. At the rebuilding of the village, after the great flood of water, the laying out of gardens was commanded; but the industry which is required to preserve them is often wanting. Pasture grounds extend themselves, on the south side of the village, covered with fine short grass; but, with the exception of some oxen and sheep belonging to the

priest, there are no cattle. Still without servants, I proceeded with my baggage University in two small boats up the river, on both sides of which

rice-fields and coco-groves extended; but the latter, being concealed by a thick border of Nipa palms and lefty cane, are only visible occasionally through the gaps. The sandy banks, at first flat, became gradually steeper,

"G. Squier ("States of Central Americo." 192) mention a block of mahogany, respateen feet in Inach, which, or its sowest section, mourred less feet six, orders equare, and contained obegether five hundred fire, could feet.

and the rock soon showed itself close at hand, with firm banks of sandy clay containing occasional traces of indistinguishable petrifactions. A small mussel\* has pieced the clay banks at the water-line, in such number that they look like honeycombs. About twelve we cooked our rice in an isolated hut, amongst friendly people. The women whom we surprised in dark ragged elething of guinara drew back ashamed, and soon after appeared in clean chequered sayas, with earrings of brass and tortoise-shell combs. When I drew a little paked girl, the mother forced her to put on a garment. About two we again stepped into the boat, and after rowing the whole night reached a small visita, Cobocobo, about nine in the forenoon. The rowers had worked without interruption for twenty-four hours, exclusive of the two hours' rest at noon, and though somewhat

tired were in good spirits. At half-nest two we set out on the road over the Salta Sangley (Chinese leap) to Tragbucan, which, distant about a mile in a straight line, is situated at the place where the Calbayot, which empties on the west coast at Point Hibaton, becomes navigable for small boats. By means of these two rivers and the short but troublesome road, a communication exists between the important stations of Catarman on the north coast, and Calbayot on the west coast. The road, which at its best part is a small path in the thick wood uninvaded by the sun, and frequently is only a track, passes over slippery ridges of clay, disappearing in the mud puddles in the intervening hollows and sometimes running into the bed of the brooks. The watershed between the Catarman and Calbayot is formed by the Salta Sangley already

According to Dr. V. Martens, Moviels structure, Hamley, who found the same bireafter at Singarpete, in headclosh water, but considerably larger, Races also delineates the species collected by Cararing in the Politopines, without proclem meation of the locality, as being larger (3) small, that from Granminia.

mentioned, a flat ridge composed of banks of clay and sandstone, which succeed one another ladder-wise downwards on both its sides, and from which the water collected at the top descends in little cascades. In the most difficult places rough ladders of bamboo are fixed. I counted fifteen brooks on the north-east side which feed the Catarman, and about the same number of feeders of the Calbayot on the south-west side. About forty minutes past four we reached the highest point of the Salta Sangley, about ninety feet above the sea: and at half-past six we got to a stream, the highest part of the Calbayot, in the bed of which we wandered until its increasing depth forced us, in the dark, laboriously to beat out our path through the underwood to its bank; and about eight o'clock we found ourselves opposite the visits Trasbucan. The river at this place was already six feet deep, and there was not a boat. After shouting entreaties and threats for a long time, the people, who were startled out of sleep by a revolver shot, agreed to construct a rait of bamboo, on which they put us and our baggage. The little place, which consists of only a few poor buts, is prettily situated, surrounded as it is by wooded hillocks on a plateau of sandfifty feet above the reed-bordered river

Thanks to the activity of the tenients of Caterman is a whos accompanied may a best was procured without offer who accompanied may a best was present activated. The banks were from twenty to forty lest high; and, with the exception of the cry of some rhinecres birds which fauttered from bought to bought on the tops of the trees, we nither heard nor saw a trace of animal file. About half-past one a similar according to the control of the cry of the

On the Collaged Dicer. fully floated, almost without admitting any water. The river, which up to this point it thirty feet breat, and on account areasy projecting branches of treat difficult with the projecting branches of treat difficult with the projecting branches of treat difficult with the projecting branches of treat the projection of the projection o

A thunderstorm obliged us to postpone the journey to the chief town. Catbalogan (or Catbalonga), which was seven leagues distant, until the afternoon. In a long boat, formed out of the stem of one tree, and furnished with outriggers, we travelled along the shore, which is margined by a row of low-wooded hills with many small visites; and as night was setting in we rounded the point of Napalisan, a rock of trachytic conglomerate shaped by perpendicular fissures with rounded edges into a series of projections like towers, which rises up out of the sea to the height of sixty feet, like a knight's eastle. At night we reached Cathalogan, the chief town of the island, with a population of six thousand, which is picturesquely situated in the middle of the western border, in a little bay surrounded by islands and necks of land, difficult to approach and, therefore, little guarded. Not a single vessel was anchored in the

harbor. The houses, many of which are of boards, are neater than those in Camarine; and the people, thought either than those in Camarine; and the people, thought of cleaner habits, than the labshitants of South Lazon. Through the courtesy of the governor I quickly obtained a roomy dwelling, and a servant who understood Spenish. Here I also lest a very sewritery of crafts. With the simplest tools be improved in many coints on my instru-

ments and apparatus, the purpose of which he cumicly

comprehended to my entire satisfaction, and gave many proofs of considerable intellectual ability

In Samer the flying monkey or lemur (the kaguage Control of the Bisavans-galconithous) is not tare. There animals, which are of the size of the domestic est, below:

to the quadrumana; but, like the flying squirrels, they are provided with a bird-like membrane, which commencing at the neck, and passing over the fore and hinder

limbs, reaches to the tail; by means of which they are able to glide from one tree to another at a very obcose angle.\* Body and membrane are clothed with a very short fur, which nearly equals the chinchilla in firemess and softness, and is on that account in great regreen. While I was there, six live kaguangs arrived as a present for the priest (three light grey, one dark brown, and two grevish brown; all with irregularly distributed exceland from these I secured a little female with her yourse. It appeared to be a very harmless, awkward animal, a very ex-

When liberated from its fetters, it remained lying on the strategy ground with all its four limbs stretched out, and ins belly in contact with the earth, and then honned in shore awkward leaps, without thereby raising itself from the ground, to the pearest wall, which was of planed baseds. Arrived there, it felt about it for a long time with the sharp claw, which is bent inwards, of its fore-hand, until at length it realized the impossibility of climbing it at any part. It succeeded by means of a corner of an accidental crevice in climbing a foot upwards, and fell down again immediately, because it had abandoned the comparatively secure footing of its hinder amas

before its fore-claws had obtained a firm hold. It In Sumatra Wallace new, in the twilight, a ternor run up the book of a tree, and then glide editionally though the six to another trank, by which to bearly records the general. The distance between the two spots absorbed \$100 ccts, and the difference of height was not absorbed \$5 or 40 feet, conceptually then than 15,4-67 Mattey Architecture. 12 feet.

THE POPMER PHILIPPINES THRU FOREIGN EYES fully floated, almost without admitting any water.

The river, which up to this point is thirty feet broad. and on account of many projecting branches of trees difficult to navigate, here is twice as broad. About eleven at night we reached the sea, and in a complete calm rowed for the distance of a league along the coast to

Calbayot, the convent at which place affords a commanding view of the islands lying before it. A thunderstorm obliged us to postpone the journey to the chief town. Catbalogan (or Catbalonga), which

was seven leagues distant, until the afternoon. In a long boat, formed out of the stem of one tree, and furnished with outriezers, we travelled along the shore. which is margined by a row of low-wooded hills with many small visitas; and as night was setting in we rounded the point of Napalisan, a rock of trachytic conglomerate shaped by perpendicular fissures with rounded edges into a series of projections like towers, which rises up out of the sea to the height of sixty feet, like a knight's castle. At night we reached Cathalogan, the chief town of the island, with a population of six thousand, which is picturesquely situated in the middle of the western border, in a little bay surrounded by islands and

necks of land, difficult to approach and, therefore, little guarded. Not a single vessel was anchored in the harbor. The houses, many of which are of boards, are neater than those in Camarines; and the people, though idle, are more modest, more honorable, more obliging, and of cleaner habits, than the inhabitants of South Luzon.

Through the courtesy of the governor I quickly obtained a roomy dwelling, and a servant who understood Sonnish. An inamiera Here I also met a very intelligent Filipino who had acquired great skill in a large variety of crafts. With the simplest tools he improved in many points on my instru-

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before its fore-claws had obtained a firm hold. It In Serious Wellage saw, in the twilight, a lemus run up the trunk of a tree, and then glide chilquely through the air to another treak, by which he street recording records the seasond. The distance between the two trees amounted to street the street of the seasond. The street was not above 35 or 40 feet; consequently, the time 15.—"("Monlay Archipolago," 1. 211).

received no hurt, as the violence of the fall was broken by the flying membrane which was rapidly extended. These attempts, which were continued with steady perseverance, showed an astonishing deficiency of judgment, the animal endeavoring to do much more than was in its power to accomplish. All its endeavore therefore, were unsuccessful, though made without doing itself any hurt-thanks to the parachute with which Nature had provided it. Had the kaguang not been in the habit of relying so entirely on this convenient contrivance, it probably would have exercised its judgment to a greater extent, and formed a more correct estimate of its ability. The animal repeated its fruitless efforts so often that I no longer took any notice of it, and after some time it disappeared; but I found it again in a dark corner, under the roof, where it would probably have waited for the night in order to continue its flight. Evidently it had succeeded in reaching the upper edge of the boarded wall by someoving its body between this and the elastic covering of bamboo hurdle-work which lay firmly imposed upon it; so that the poor creature, which I had rashly concluded was stupid and awkward, had, under the circumstances, manifested the greatest possible skill, prudence, and perseverance,

A promise of rare animals and wild people. A priest who was present on a visit from Cabligan promised net no may weeders in his district—abundance of the rarest animals, and Climarones uncivilized in the highest degree—that I accompanied him, on the following day, in his journey home. In an hour after our departure we resched the little thand of Majova, which consists of perpusicializar strata of a hard, fine-home than the strategy of th

situated, fifty feet above the tea, in a bay, before which call so does the case of this couls a root of mall picture eque islands succeed one another, and is exacely four eque islands succeed one another, and is exacely four five the sequence from Catabogan. But Cabbagan. But Cabb

According to the statements of credible men, there are Strates serpent-tamers in this country. They are said to pine the sements out of their holes directing their movements, and stopping and handling them at will, without being injured by them. The most famous individual amongst them, however, had been carried off by the sea-pirates a short time before; another had run away to the Cimarronese in the mountains; and the thirdwhose reputation did not appear to be rightly established. accompanied me on my excursion, but did not justify the representations of his friends. He caught two poisonous serpents.\* which we encountered on the road. by dexterously seizing them immediately behind the head, so that they were incapable of doing harm; and, when he commanded them to lie still, he took the precaution of placing his foot on their necks. In the chase I hurt my foot so severely against a sharp-pointed branch which was concealed by the mud that I was obliged to return to Cathalogan without effecting my object. The inhabitants of Calbigan are considered more active

<sup>\*</sup> Attending to W. Peters, Propiditivess Philippinessis, Gray.

and circumspect than those on the west coast, and they are praised for their honesty. I found them very skilfull and they seemed to take an evident pleasure in making collections and preparing plants and animals so that I would gladly have taken with me a servant from the place; but they are so reluctant to leave their village that all the priest's efforts to induce one to ride with us were fruitless.

At a short distance north-west from Catbalogan a most hypreiser garden of corals is to be observed in less than rwn fathonys, at the ehb. On a vellow carpet of calcarecus polyns and sponges, groups of leather-like stalks. finger-thick, lift themselves up like stems of vegetable growth; their upper ends thickly covered with polyns (Surceptaton pulmo Esp.), which display their roses of tentacula wide open, and resplendent with the most beautiful varying colors, looking, in fact, like flowers in full bloom. Very large seroulites extend from their calcareous tubes, elegant red, blue, and vellow crowns of feelers, and, while little fishes of marvellously gorgrous color dart about in this fairy garden, in their midst

luxuriantly grow delicate, feathered plumulariae. Bad weather and the flight of my servant, who had Omamental but gambled away some money with which he had been entrusted at a cock-fight, having detained me some days in the chief town. I proceeded up the bay, which extends southwards from Catbalogan and from west to east as far as Paranas. Its northern shore consists of ridges of earth, regular and of equal height, extending from north to south with gentle slones towards the west, but steen declivities on the east, and terminating abruptly towards the sea. Nine little villages are situated on this coast between Catbalogan and Paranas. From the hollows, amidst coco and betel palms, they expand in isolated

groups of houses up the gentle western slopes, and, on

reaching the summit, terminate in a little castle, which hardly affords protection against the pirates, but garenly forms a pretty feature in the landscape. In front of the southern edge of the bay, and to the southwest, many small islands and wooder locks are visible, with the mountains of Leyte in the high-ground, constiuting an eyer-shifting series of views.

As the men, owing to the sultry heat, the complete from calm, and almost cloudless sky, slept quite as much as they rowed, we did not reach Paranas before the afternoon. It is a clean village, situated on a declivity between twenty and a hundred and fifty feet above the sea. The sides, which stand perpendicularly in the sea, consist of grey banks of clay receding landwards. and overspread with a layer of fragments of musse's. the intervals between which are filled up with clay. and over the latter is a solid breccia, cemented with lime, composed of similar fragments. In the clay banks are well-preserved petrifactions, so similar in colorhabitat, and aspect to many of those in the German tertiary formations that they might be taken for them. The breccio also is fossil, probably also tertiary; at all events, the identity of the few species which were re-

small canal, through a stinking bog of rhizophora (mangroves), and then continued my journey on land to Loquilocun, a little village which is situated in the forest. Half-way we passed through a river, twenty feet broad, flowing cast to west, with steep banks rendered accessible by ladders.

cognisable in it-Cerithium, Pecten, and Venus-with

On the following morning I proceeded northwards by a

\*V. Martens identified amongst the tertiary massels of the banks of over the following species, which still live in the Ladies Oreant-Tensor, Nanoband Insales, Lam. P. symmons, i.d. Are generally, Pilds, i.e. to respect to the desired Archivestra, Nanoband Archivestra, Nanoband Archivestra, Nanoband Archivestra, Nanoband Archivestra, Insales, Nanoband Archivestra, N

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habitat and aspect to many of those in the German tertiary fermations that they might be taken for them. The breccia also is fossil, probably also tertiary; at all events, the identity of the few species which were recognisable in it-Cerithium, Pecten, and Venus-with living species could not be determined.\*

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by ladders

tracelling.

cuit to heal in warm countries). I caused myself to be carried part of the way in the manner which is customary hereabouts. The traveller lies on a loose mat, which is fastemed to a bamboo frame, borne on the shoulders of four robust polistas. About every ten minutes the control of the control of the control of the control of particular the frame is furnished with a light roof of pandasus.

Poor resis.

Salas Saugey; and, with the exception of the sea-shore, which is sometime available, there appear to be none better in Samar. After three hours we reached the state of the season of th

Enquilterns.

torrent. Amdid lood cheers both the boats glided down a cassed of a food and half in height without hipping any water.

The little village of Loquilocun consists of three groups of the control of the c

which belonged to almost as many species and genera. Probably the bad custom of poisoning the water in order to kill the fish (the pounded fruit of a Barringtonia here being employed for the purpose) is the cause of the river being so empty of fish.

After a few days we left the little place about half- Names and past nine in the forenoon, packed closely in two small boats; and, by seven minutes past one when we reached an inhabited hut in the forest, we had descended more than forty streams of a foot and a foot and a half and more in depth. The more important of them have names which are correctly given on Coello's map; and the following are their distances by the watch:-At ten o'clock we came to a narrow, rocky chasm, at the extremity of which the water falls several feet below into a large basin; and here we unloaded the heats which hitherto had, under skilful management, wound their way, like well-trained horses, between all the impediments in the bed of the river and over all the cascades and waves, almost without taking any water; only two men remaining in each boat, who, loudly cheering, shot downwards; in doing which the boats were filled

Opposite this waterfall a bank of rubbish had been American's formed by the fallium, in which, healths fragments of the subjector rock, were found well-rounded pieces of the subjector rock, were found well-rounded pieces of the subjector rock, were found well-rounded pieces of the subjector rock, and the subject rock of the

to the brim

it out. At about fifteen minutes past twelve, we proceeded onwards, the river now being on the average sixty feet hmad. On the edge of the wood some stender palms, hardly ten feet high, were remarkable by their frequency, and many phakenopses by their display of blossoms, which is of rare occurrence. Neither birds nor axes, nor serpents were observed; but large pythons. as thick as one's leg are said to be not unfrequent. pp/leve. About thirty-six minutes past twelve we reached one of the most difficult places-a succession of waves, with many rocks projecting out of the water, between which the boats, now in full career, and with rapid evolutions, glided successfully. The adventure was accomplished with equal skill by the two crews, who exerted their powers to the utmost. At seventeen minutes past one Gird portour. we arrived at Dini, the most considerable waterfall in the whole distance; and here we had to take the boats out of the water; and, availing ourselves of the lianas which hung down from the lofty forest trees like ropes, we dragged them over the rocks. At twenty-one minutes past two we resumed our journey; and from twentytwo minutes past to half past eight we descended an irregular stair composed of several ledges, shipping much water. Up to this point the Loquilocun flowed in a rocky bed, with (for the most part) steep banks, and sometimes for a long distance under a thick canopy of boughs, from which powerful tendrils and ferns, more than a fathom in length, were suspended. Here the country was to some extent open; flat hillocks, with low underwood, came to view, and, on the north-west, loftier wooded mountains. The last two hours were notable for a heavy fall of rain, and, about half past five, we reached a solitary house occupied by friendly people, where we took up our quarters for the night.

On the following morning the journey was continued here-to-undown ther river. Within ten minutes we glided past the last waterfall, between white colearous rocks of a hind of market, covered with magnificant vogetation. Branches, and the state of the state of the state of the state market, and the state of the state of the state of the Reidth. Its.), projected over the river, their flowers wowing like large prognous batterfless over its foaming current. Two hours latter the stream became two handed feet bread, and, after lenging down a ladder of the state of the state of the stream of the state of the different particular of the stream of the state of the in grantle windings through a flat inundated courtry to the east coast forming a broad extuary, on the right basic of which, half a lengue from the sea, the district of pulsasson or Part (opposition 2,309) a statested. The

to begin their very arduous return journey.
Owing to bed weather, I could not bembark for Table; and
(spoplation 2,838), south of Paris, before the following
day; and, being continually hindered by difficulties of long; and, being continually hindered by difficulties of the continual property of the continual to Beronage (spoplation 7,888), with the equally intelligent and obliging priest with whom I remisland
some days, and then continued my journey to Guisan
(slot Guisang, Guiguan), the most important district
in Sannar (republicion 10,731), situated on a small neder
of land whith projects from the south east point of the

Here the excellent fellows of Loquilocus left me in order

Close to the shore at the latter place a copious spring of the bursts out of five or six openings, smelling slightly of sulphuretted hydrogen. It is covered by the sea during the flow, but is open during the ebb, when its salt taste

is hardly perceptible. In order to test the water, a well was formed by sinking a deep bottomless jar, and from this, after the water had flowed for the space of half

an hour, a sample was taken, which, to my reget, was afterwards but. The temperature start of the spring, at eight o'clock in the foremore, water of the spring, at eight o'clock in the foremore, water of the strongbers, 2.87° of the seawouter, 3.12°°C. The spring is sured by the women to dye their savongs. The spring is sured by the women to dye their savongs. The strength of the spring the sured by the women to dye their savongs. The spring is sured by the women to dye their savongs. The spring is sured by the women to dye their savongs are the springer of the spring

readige.

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At Loquilocun and Borongan I had an opportunity of purchasing two live macaques.\* These extremely delicate and rare little animals, which belong to the class of semi-apes, are, as I was assured in Luzon and Leyte, to be found only in Samar, and live exclusively on charcoal. My first "mago" was, in the beginning, somewhat voracious, but he disdained vegetable food, and was particular in his choice of insects, devouring live grasshoppers with delight.† It was extremely ludicrous, when he was fed in the day time, to see the animal standing, perched up percendicularly on his two thin legs with his bare tail, and turning his large head-round as a ball, and with very large, yellow, owl-like eyes-in every direction, looking like a dark lantern on a pedestal with a circular swivel. Only gradually did he succeed in fixing his eyes on the object presented to him; but, as soon as he did perceive it,

<sup>\*</sup> Trains provinces. Terms in the language of the consisty—tages.

If Porter Complex that the little address is said to live only on cost, but that it was no error, live of the consistency of the language of

he immediately extended his little arms adeeway, as though somewhat bashiful, and then, like a delighted child, suddently sesime it with hand and mouth at once, he deliberately to ret he pret to pleese. During the day the mage was aleepy, short-sighted, and, when disturbed, morose; but with the decreasing daylight he expanded his publis, and moved about in a lively and siglie manner, with rapid noiseless large, generally alloways. He some became teams, but to my regret died after a few weeks; and I succeeded only for a short time in keeping the and I succeeded only for a short time in keeping the

## XX

In Guiuan I was visited by some Micronesians, who Post time for the last fourteen days had been engaged at Sulangan Condines on the small neck of land south-east from Guiuan, in diving for pearl mussels (mother-of-pearl), having undertaken the dangerous journey for the express purpose.\*

They had sailed from Uleal (Uliai, 7° 20' N., 143° 57' Brookins as E. Gr.) in five boats, each of which had a crew of nine response of the men and carried forty gourds full of water, with occounts and batata. Every man received one coconut daily, and two batatas, which they baked in the askes of the

and batata. Every man received one coconut daily, and two batatas, which they baked in the ashes of the coco shells; and they caught some fish on the way, and collected a little rain-water. During the day they directed their course by the sun, and at night by the

The following constructions appeared for the fast time in the recent of a recent of a recent of the construction of the fast time in the recent of a recent of the construction of Paten includes Bull, and Prof. Sauster, also prese a long later to reconstruction of the Construction of th

## tio the former philippines thru foreign eyes

stars. A storm destroyed the loats. Two of them sank, together with their crews, before the eyes of their computing, and of them, only one-probably the sole parties, and of them, only one-probably the sole parties, and of the sole parties, and of the sole party reminded of Affadians. He hardrow of Tandag on the veels afterwards reached the hardrow of Tandag on the review of Affadians. The party reminded of Tandag to we of Affadians of the fields for hire, and then proceeded northwords along the ceant to Cantalliage, 25 25 N, 18 nanouna (salled error, norouly Bancusa by Coello), 9° 1° N.; Tegaman, 9° 32° N; theme to Sarigo, on the north priori of Mindanous, and then, with an exaterly wind, in two days, direct to Guiusan. In the German translation of Captain Salmoin's 'History of the Oriental Islands' (Altong: 1739), it is stated that:

the Police.

"Some other islands on the east of the Philippines have lately been discovered which have received the name of the New Philippines because they are situated in the neighborhood of the old, which have been already described. Father Clan (Clain). in a letter from Manila. which has been incorporated in the Philosophical Transactions,' makes the following statement respecting them:-It happened that when he was in the town of Guivam, on the island of Samar, he met twenty-nine Paleos (there had been thirty, but one died soon after in Guiuan), or natives of certain recently discovered islands, who had been driven thither by the east winds, which prevail from December to May. According to their own statement, they were driven about by the winds for seventy days, without getting sight of land, until they arrived opposite to Guivam. When they sailed from their own country, their two boats were quite full, carrying thirty-five souls, including their wives and children; but several had died miserably on the way from the fatigue which they had undergone. When some one from Guivam wished to go on board to them, they were thrown into such a state of terror that all who were in one of the beats sprang overboard, along with their wives and children. However, they at last thought it

rain weger.

best to come into the harbor; so they came ashore on December 28, 1696. They fed on coconuts and roots. which were charitably supplied to them, but refused even to taste cooked rice, which is the general food of the Asiatic nations. Two women who had previously Previous been east navay on the same islands acted as interpreters consume. for them \* \* \*

"The people of the country went half naked, and the Line by see men painted their bodies with spots and all kinds of feeling and devices. \* \* \* As long as they were on the sea they lived on fish, which they caught in a certain kind of fish-basket, with a wide mouth but tapering to a point at the bottom, which was dragged along underneath the boats; and rain-water, when they could catch it for, as is stated in the letter itself, preserved in the shells of the coconut), served them for drink. When they were about to be taken into the presence of the Father. whom, from the great respect which was shown to him. they took for the governor, they colored their bodies entirely yellow, an operation which they considered highly important, as enabling them to appear as persons of consideration. They are very skilful divers, and now and then find nearls in the mussels which they bring up. which, however, they throw away as useless things."

But one of the most important parts of Father Clain's Not be for letter has been omitted by Capt. Salmon:-"The oldest of ""re for ave. three strangers had once before been out away on the coast of the province of Carmonn, on one of our islands (Mindanso); but as he found only heathers (infidels), who lived in the mountains or on the desert shore, he returned to his own country."

In a letter from Father Cantova to Father d'Aubenton. Yest coasies dated from Agdana (i.e. Agaña, of the Marianne Islands), from Paris March 20, 1722, describing the Caroline and Pelew Islands. it is said: "The fourth district lies to the west. You (9° 25' N., 138° 1' E. Gr.)." which is the principal island,

Dumont d'Ureille, l'ayeye to the Nouth Poly, v. 205, remarks that the natives talk their identification or Gusen, but ayere Vapp, and that the leabourity in that place ten superior to prothing he had seen in the South See.

ete

is more than forty leagues in circumference. Besides the different roots which are used by the natives of the sizate instead of bread, there is the bastas, which they call cannote, and which they have acquired from the property of the sizate instead of the property of the sizate instead of the property of the sizate in the filled property of the sizate in the filled property of the root of the property of the sizate in the filled property of the sizate in th

amongst others the batata, which multiplied so fast that they had sufficient to supply the other islands of the Archipelago with them." Murillo Velarde states that in 1708 some Palaos were wrecked in a storm on Palapag (north coast of Samar); and I personally had the opportunity, in Manila, of photographing a company of Palaos and Caroline islanders, who had been the year before cast on the coast of Samar by foul weather. Apart from the question of their transport, whether voluntary or not, these simply were six examples, such as still occur occasionally, of Micronesians cast up on the shore of the Philippines; and probably it would not be difficult to find several more; but how often, both before and after the arrival of the Spaniards, might not vessels from those islands have come within the influence of the northeast storms, and been driven violently on the east coast of the Philippines without any record of such facts being preserved?\* Even as, on the west side of the Archipelago, the type of the race seems to have been modified by its long intercourse with China, Japan, Lower India, and later with Europe, so likewise may Poly-

<sup>\*</sup> The vapages of the Polymesians were also caused by the Lysenny of the victorious parcies, which corepelled the vanguished to emigrate.

nesian influences have operated in a similar manner on Passile the east side; and the further circumstance that the inhabitants of the Ladrones\* and the Bisayans† possess the art of coloring their teeth black, seems to point to early intercourse between the Bisayans and the Polynesians.1

At Guiuan I embarked on board an inconveniently A/MI and At Guiuan I emparked on poard an inconveniently partial arms, open boat, which was provided with an awning see leaf. only three feet square, for Tacloban, the chief town of Leyte. After first experiencing an uninterrupted calm. we incurred great danger in a sudden tempest, so that we had to retrace the whole distance by means of the oars. The passage was very laborious for the crew who were not protected by an awning (temperature in the tun 35° R., of the water 25° R.\$), and lasted thirty-one hours, with few intermissions; the party voluntarily abridging their intervals of rest in order to get back quickly to Tacloban, which keeps up an active intercourse with Manila, and has all the attractions of a luxurious city for the men living on the inhospitable eastern coast. It is questionable whether the sea anywhere washes over a spot of such peculiar beauty as the narrow Book of strait which divides Samar from Leyte. On the west stark it is enclosed by steep banks of tuff, which tolerate no swamps of mangroves on their borders. There the lofty primeval forest approaches in all its sublimity close to the shore, interrupted only here and there by groves of eecos, in whose sharply defined shadows solitary

\* Pfgufetts, p. 51. 1 Mareo, f. 127. 1 Merga, f. 127.
— "The Illisquane cover their teeth with a shiring warrish, which is either liked, or of the rules of fire, and thus their teeth because chicke therefore or the teeth of the profess and his day to the press, which they if the profess and his day to the press, which they if the profess of the p

pare also Carletti, l'aprire, i. 153. 42 and 30 Cent. or 168 and 86 Fabr. -C. huts are to be found; and the steep hills facing the sea. and numerous small rocky islands, are crowned with little castles of blocks of coral. At the eastern entrance of the strait the south coast of Samar consists of white limestone, like marble, but of quite modern date, which in many places forms precipitous cliffs.\* At Nina-Nipa, a small hamlet two leagues from Basey, they project into the sea in a succession of picturesque rocks. above one hundred feet in height, which, rounded above like a dome, thickly covered with vegetation, and corroded at the base by the waters of the sea, rise out of the waves like gigantic mushrooms. A peculiar atmosphere of enchantment pervades this locality, whose influence upon the native mariner must be all the more nowerful when, fortunately escaping from the billows outside and the buffeting of the north-east wind he suddenly enters this tranquil place of refuse. No wonder that superstitious imagination has peopled the place with spirits. In the coverns of these rocks the ancient Pintados inter-

armar rever,

and the corpaes of their heres and ancestors in welllocked coffins, surrounded by those objects which had been held in the highest regard by them during life. Slaves were also sacrificed by them at their obsequies, in order that they might not be without attendance in the world of shadows;† and the numerous coffins, imple-

In one of three cliffs, etc) less there to rea, being of coursels were produced in the course of the course of the coursels of the course of the coursels of t

Out of the pulpopal exerciseds of the law consisted featurity least does still as using released in lumini acarities. Where the Duck Government, extended his very compensation laws according to the product of the product of the laws of the featurity according to extending the control of the featurity according to the local of the featurity according to the local of t

ments, arms, and trinkets, protected by superstitious terrors, continued to be undisturbed for centuries. No boat ventured to cross over without the obsevance of a religious ceremony, derived from heathen times, to propitiate the spirits of the caverns who were believed to punish the omission of it with storm and ship-wreck.

About thirty years ago a zealous young ecclesiastic, to whom these heathen practices were an abomination, determined to extirpate them by the roots. With several boats well equipped with crosses, banners, pictures of saints, and all the approved machinery for driving out the Devil, he undertook the expedition against the haunted rocks, which were climbed amidst the sounds of music, prayers, and the reports of fireworks. A whole pailful of holy water first having been thrown into the cave for the purpose of confounding the evil spirits, the intrepid priest rushed in with elevated cross, and was followed by his faithful companions, who were fired with his example. A brilliant victory was the reward of the wellcontrived and carefully executed plot. The coffins were broken to fragments, the vessels dashed to pieces, and the skeletons thrown into the sea; and the remaining caverns were stormed with like results. The objects

I subsequently learned from the price at Basy that there were still one remains on a rock, and a fer day afterwards the wortly man surprised me with several skells and a child's cotin, which he had had brought from the place. Notwithstanding the great respect in which he was held by his flock, he had to serve all his powers of presusation to induce the bodiest of them to engage into defaring an enterprise. A beat manned by sixteen rowers was fitted out for the purpose; with a smaller crees they would not have ventured to understanding the statement of the state

of superatition have indeed been annihilated, but the superatition itself survives to the present day.

nstrukatrupa. superatibies

Skalls from a rick over Beneg \*# THE FORMER PHILIPPINES THRU FOREIGN EVES

take the journey. On their return home a thunderstorm broke over them, and the sailors, believing it to be a punishment for their outrage, were prevented only by the fear of making the matter worse from throwing coffin and skulls into the sea. Fortunately the land was sear, and they rowed with all their might towards it; and, when they arrived, I was obliged to take the objects out of the boat mwelf, as no notice would touch them.

l'he carroi'i antrois

Notwithstanding. I was the next morning successful in finding some resolute individuals who accompanied me to the caverns. In the first two which we examined we found nothing: the third contained several broken coffins, some skulls, and potsherds of glazed and crudely painted earthquage, of which, however, it was impossible to find two pieces that belonged to each other. A narrow hole led from the large cavern into an obscure space, which was so small that one could remain in it only for a few seconds with the burning torch. This circumstance may explain the discovery in a coffin which was eaten to pieces by worms, and quite mouldered away, of a well-preserved skeleton, or rather a mummy, for in many places there were carcasses clothed with dry fibers of muscle and skin. It lay upon a mat of pandanus, which was yet recognizable, with a cushion under the head stuffed with plants, and covered with matting of pandanus. There were no other remains of woven material. The coffins were of three shapes and without any ornament. Those of the first form, which were of excellent molave-wood, showed no trace of wormholes or decay, whereas the others had entirely fallen to dust; and those of the third kind, which were most numerous, were distinguishable from the first only by a less curved form and inferior material.

Impressive location of No legend could have supplied an enchanted royal sepulchre with a more suitable approach than that of

Josep's Travels in the Philippines the last of these caverns. The rock rises out of the sea with perpendicular sides of marble, and only in one enot is to be observed a natural opening made by the water, hardly two feet high, through which the boat nassed at once into a spacious court, almost circular, and over-arched by the sky, the floor of which was covered by the sea, and adorned with a garden of corals. The steep sides are thickly hung with lianas, ferns, and orchids, by help of which one climbs upwards to the cayern, sixty feet above the surface of the water. To add to the singularity of the situation, we also found at the entrance to the grotto, on a large block of rock projecting two feet above the ground, a sea-snake, which tranquilly gazed at us, but which had to be killed, because, like all genuine sea-snakes, it was poisonous. Twice before I had found the same species in crevices of rock on the dry land, where the ebb might have left it; but it was strange to meet with it in this place, at such a height

above the sea. It now reposes, as Platurus fascialus Dand., in the Zoological Museum of the Berlin University, In Guiuan I had an opportunity of purchasing four richly painted Chinese dishes which came from a similar from a see cavern, and a gold signet ring; the latter consisting of a plate of gold, originally bent into a tube of the thickness of a quill with a gaping seam, and afterwards into a ring as large as a thaler, which did not quite meet. The

dishes were stolen from me at Manila. There are similar caverns which have been used as burial-

places in many other localities in this country; on the island of Andog, in Borongan (a short time ago it contained skulls): also at Batinguitan, three hours from Borongan, on the banks of a little brook; and in Guiuan, on the little island of Monhon, which is difficult of approach by reason of the boisterous sea. In Catubia trinkets of gold have been found, but they have been converted

into modern articles of adornment. One cavern at Lavang, however, is famous over the whole country on account of the gigantic, flat, compressed skulls, without sutures, which have been found in it.\* It will not be uninteresting to compare the particulars here described with the statements of older authors; and for this reason

I submit the following extracts:---Entalmin. Mas (Informe, i. 21), who does not give the sources of his information, thus describes the customs of the ancient inhabitants of the archipelago at their interments:-They sometimes embalmed their dead with aromatic substances \* \* \* and placed those who were of note in chests carved out of a branch of a tree, and furnished with well-fitted lids \* \* \* The coffin was placed, in accordance with the wish of the deceased, expressed before his death, either in the uppermost room of the house, where articles of value were secreted or under the dwelling-house, in a kind of grave, which was not covered, but enclosed with a railing; or in a distant field, or on an elevated place or rock on the bank of a river, where he might be venerated by the pious. A watch was set over it for a certain time, lest

boats should cross over, and the dead person should drag the living after him. According to Gaspar San Agustín (o. 169), the dead were rolled up in cloths, and placed in clumsy chests, carved out of a block of wood, and buried under their houses, together with their lewels, gold rings, and some plates of gold over the mouth and eyes, and furnished with provisions, cups, and dishes. They were also accustomed to bury slaves along with men of note, in order that they might be attended in the other world. In the chapter Dr. usaggis of specia complete.

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## Japo's Tracels in the Philippines

"Their chief idolatry consisted in the worship of those of their ancestors who had most distinguished themselves by courage and genius, whom they regarded as detties \* \* \* \* They called them himnalagar, which is the same as manes in the Latin \* \* Even the aged died under this conceit, choosing particular places.

mannes in the Latin \* \* Even the aged field under this conceit, choosing particular places, such as one on the island of Leyte, which allowed of their beginterred at the edge of the sea, in order that the mariners who crossed over might acknowledge them at deities, and pay them respect." (Theenot, Religieux, p. 2.)

They did not place them (the dead) in the earth, flow but in coffins of very hard, indestructible wood \* \* \* world. Male and female slaves were sacrificed to them, they should not be unattended in the other world. If an person of consideration died, silence was imposed upon the whole of the people, and its duration was revulated by the rank of the deceased; and under certain

circumstances it was not discontinued until his relations had killed many other persons to appears the spirit of the dead." (Ibid., p. 7.)
"For this reason (to be worshipped as deities) the oldest of them closes some remarkable spot in the mountains, and particularly on headlands projecting into the sea, and order to be worshipped by the sailor." (Genelli)

Corest, p. 400.)

From Tacksham, which I chose for my backguarters however on account of its convenient tribunal, and because it when it was used as properly and the convenient tribunal, and because it was used supplied with provisions. I rurnared on the following day to Samar, and then to Basey, which is opposite to Tacksham. The people of Basey we observious over all Samar for their laxiness and their stupidity, but are advantageously distinguished from the inhabitants of Tacksham by their purity of manners. Basey is situated on the delta of the river, which is named fare it. We

proceeded up a small arm of the principal stream, which

winds, with a very slight fall, through the plain; the brackish water, and the fringe of nipa-palms which accompanies it, consequently extending several leagues into the country. Coco plantations stretch behind them; and there the floods of water (arenidus), which sometimes take place in consequence of the narrow rocky bed of the upper part of the river, cause great devastation, as was evident from the mutilated palms which, torn away from their standing-place, rise up out of the middle of the river. After five hours' rowing we passed out of the flat country into a narrow valley, with steep sides of marble, which progressively closed in and became higher. In several places they are underwashed, cleft, and hurled over each other, and with their paked side-walls form a beautiful contrast to the blue sky, the clear, greenish river, and the luxuriant lianas, which, attaching themselves to every inequality to which

they could cling, hung in long garlands over the rocks. The stream became so rapid and so shallow that the party disembarked and drazged the boat over the stony had. In this manner we passed through a sharp curve, twelve feet in height, formed by two rocks thrown opposite to each other, into a tranquil oval-shaped basin of water enclosed in a circle of limestone walls, inclining inwards, of from sixty to seventy feet in height; on the unper edge of which a circle of trees permitted only a misty sunlight to glimmer through the thick foliage. A magnificent gateway of rock, fifty to sixty feet high, and adorned with numerous stalactites, raised itself up opposite the low entrance; and through it we could see, at some distance, the upper portion of the river bathed in the sun. A cavern of a hundred feet in length, and easily climbed, opened itself in the left side of the oval court, some sixty feet above the surface of the water; and it ended in a small gateway, through which you

A beantiful

stepped on to a projection like a balcony, studded with stalactites. From this point both the landscape and the rocky cauldron are visible, and the latter is seen to be the remainder of a stalactitic cavers, the roof of which has fallen in. The beauty and peculiar character of the place have been felt even by the natives, who have called it Sogoton (properly, a bay in the sea). In the very herd limestone, which is like marble. I observed traces of bivalves and multitudes of spines of the sea-urchin, but no well-defined remains could be knocked off. The river could still be followed a short distance further upwards; and in its bed there were disjointed fragments

of talcose and chloritic rocks.

A few small fishes were obtained with much difficulty; Flating. and amongst them was a new and interesting species, viviparous.\* An allied species (H. flaviatilis, Bleeker) which I had two years previously found in a limestone cavern on Nusa Kambangan, in Tava, likewise contained living young ones. The net employed in fishing appears to be suited to the locality, which is a shallow river. full of transparent blocks. It is a fine-meshed, longish, four-cornered net, having its ample sides fastened to two poles of bamboo, which at the bottom were provided with a kind of wooden shoes, which curve upwards towards the stems when pushed forwards. The fisherman, taking hold of the upper ends of the poles, pushes the net, which is held obliquely before him, and the wooden shoes cause it to slide over the stones, while

another person drives the fish towards him. above the surface of the water, there are beds of fossils, pectunculus, tapes, and placuna, some of which, from the fact of their barely adhering by the tip, must be of very recent date. I passed the night in a small hut,

\* Hemiranshus sisiparus, W. Peters (Stellin Massish., March 16, 1855).

On the right bank, below the cavern, and twenty feet Familieds.

which was quickly erected for me, and on the following day attempted to pass up the river as far as the limits of the cyrstalline rock, but in vain. In the afternoon we set out on our return to Basey, which we reached at tright.

above the sea, which towards the west elevates itself into a hill several hundred feet in height, and with steep sides. At twenty-five to thirty feet above the sea I found the same recent beds of mussels as in the stalactitic cavern of Sosoton. From the statements of the parish priest and of other persons, a rapid elevation of the coasts seems to be taking place in this country. Thirty years ago ships could lie alongside the land in three fathoms of water at the flood, whereas the depth at the same place now is not much more than one fathorn. Immediately opposite to Basey lie two small islands, Genamok and Tapontonan, which, at the present time, appear to be surrounded by a sandbank at the lowest ebb-tide. Twenty years ago nothing of the kind was to be seen. Supposing these particulars to be correct, we must next ascertain what proportion of these changes of level is due to the floods, and how much to volcanic elevation; which, if we may judge by the neighboring active solfatara at Leyte, must always be of considerable amount. As the priest assured us, there are crocodiles in the river Basey over thirty feet in length, those in excess

when, it we may justed by the neighboring active solders and the property of the property of the controlled the anomat. As the priese the priese of the controlled the anomat. As the priese the priese the priese the priese the controlled the river Basey over thirty feet in length, those in excess of twenty feet being numerous. The oblighing father promised me one of at least twenty-four feet, whose selection it would glashly have secured; and he sent out some men who are so practiced in the capture of these mental and the priese that the priese of the controlled the priese. The disputched to distant places for which I, however, never prenously witnessed, consists of a light rate of bamboo, with a series, on which, several

feet above the water, a dog or a cat is bound. Alongside the animal is placed a strong iron hook, which is fastened to the swimming bamboo by means of fibers of abaca. The crocodile, when it has swallowed the bait and the hook at the same time, endeavors in vain to get away, for the pliability of the raft prevents its being torn to pieces, and the peculiar elasticity of the bundle of fibers prevents its being bitten through. The raft serves likewise as a buoy for the captured animal. According to the statements of the hunters, the large crocodiles live far from human habitations, generally selecting the close vegetation in an oozy swamp, in which their bellies, dragging heavily along, leave trails behind them which betray them to the initiated. After a week the priest mentioned that his party had sent in three crocodiles, the largest of which, however, measured only eighteen feet, but that he had not kept one for me, as he hoped to obtain one of thirty feet. His expectation, however, was not fulfilled.

In the environs of Basey the Ignatus bean grown in Architecture Termarkable shandance, as it also does in the south of Samar and in some other of the Blisayon islands. It is not met with in Lucano, but it is very likely that I have introduced it there unwritingly. Its sphere of the Islands of Blittlemore were fruitless. Some large plants is tomed for that purpose, which during my absence arrived for me at Daraga, were incorporated by one of my patrons into his own genderic and some, which were collected by himself and genderic mid-some, which were collected by himself and the Islands of the Islands

THE FORMER PHILIPPISES THRU FOREIGN EYES

carried, they having been boiled before transmission, ostensibly for their preservation, but most probably

to secure the monopoly of them.

According to Flueckinger,\* the gourd-shaped berry
of the climbing shrub (laudin amora, L. Strucknos

of coording for street, seeing the processing the seeing of coording the seeing the seei

dear, it is only produced from the latter.

In many households in the Philippines the dangerous

drug is to be found as a highly prized remedy, under the name of Penita de Cathalonga Gemelli Careri mentions it, and quotes thirteen different uses of it. Dr. Rosenthal ("Synoneis Plantarum Diaphor." n. 363) says:--"In India it has been employed as a remedy against cholera under the name of Pancela," Panecta is probably a clerical error. In K. Lell Dev's "Indigenous Drugs of India," it is called Papeeta, which is pronounced Penita in English: and Penita is the Spanish word for the kernel of a fruit. It is also held in high estimation as un antidote for the bite of sements. Father Blanco ("Flora of the Philippines," 61), states that he has more than once proved its efficacy in this respect in his own person; but he cautions against its employment internally, as it had been fatal in very many cores. It should not be taken into the mouth, for should the spittle be swallowed. and vomiting not ensue, death would be inevitable. The parish priest of Tabaco, however, almost always

\* Lakrisch der Pharmskoponic des Pharmsriche (Companison of the "Pharmscotocia of the Vegetable Kingdom,") p. 656.

Chalcra and state-tile care.

Struckmine

Jugor's Transit in the Philippines

carried a pepita in his mouth. From 1842 he began occasionally to take an Imatius bean into his month as a protection against cholera, and so gradually accustomed himself to it. When I met him in 1860 he was quite well, and ascribed his health and vigor expressly to that habit. According to his communication, in cases of cholera the decoction was successfully administered in small doses introduced into tea; but it was most efficacious when, mixed with brandy, it was applied as

a liniment.

Huc also ("Thibet," I. 252) commends the expressed Survey inice of the kouo-kouo ((Faba Jan. amar.); both for morning internal and external use, and remarks that it plays a least great part in Chinese medicine, no apothecary's shop being without it. Formerly the poisonous drug was considered a charm, as it is still by many. Father Camel\* states that the Catbalogan or Bisayan-bean, which the Indians call Igasur or Mananaog (the victorious), was generally worn as an amulet round the neck, being a preservative against poison, contagion, magic, and philtres, so potent, indeed, that the Devil in propin persona could not harm the wearer. Especially efficacious is it against a poison communicated by breathing upon one, for not only does it protect the wearer, but it kills the individual who wishes to poison

him. Camel further mentions a series of miracles which superstition ascribed to the Ignatius bean. On the southern half of the eastern border, on the Cossula. shore from Borongan by Lauang as far as Guiuan, there are considerable plantations of cocos, which are most imperfectly applied to the production of oil. From Borongan and its visitas twelve thousand pitchers of

coconut oil are yearly exported to Manile, and the nuts consumed by men and pigs would suffice for at least \* Philos. Prant. 1693. No. 240, pages 44, 87.

eight thousand pitchers. As a thousand nuts yield eight pitchers and a half, the vicinity of Borongan alone yields annually six million nuts; for which, assuming the average produce at fifty nuts, one hundred-twenty thousand fullbearing palms are required. The statement that their number in the above-mentioned district amounts to several millions must be an exaggeration.

In The oil is obtained in a very rude manner. The ternel is rapid out of the woody shell of the nut on rough bands, and left to rot; and a few boats in a state of decay, elevated on posts in the open air, serve as reservoirs; the oil dropping through their crevices into pichem pieced undermeth; and finally the boards are subjected to pressure. This operation, which requires several months for its compiletion, yields such a bad, darb-brown, and vised product that the pitcher fetches unsertion of cases which were the product of the product

Oil forters.

superior on costs as coulars. The executed a factory in Recently a synong Spenialmentance of oil. A swisch, turned by two carakaos, sets a number of rangs in motion by means of touched where and leather strays. They are somewhat like a gimlet in form, and consist of five ion plates, with dentated edges, which are splected for the ion plates, with dentated edges, which are placed and of the rod passes through the exercise of a disk, which communicates the rotary motion to it, and projects beyond it. The workman, taking a divided consumitates the rotary motion to it, and projects beyond it. The workman, taking a divided consumitates the rotary motion to it, and projects beyond it. The set workman taking a divided consumitates that the same fine special proposed in the two lames, holds its interior arcts, which contains revolving rays a the same time quirte with his freats.

At Beronges the tissis of 12 parts; cost six resis (our quest about two
pesstas), the pet two resis, the foright to Marsin three resis, or, if the pesduct
is corried as cargo features), two and out-table resis. The peter at Muslis
refers to the looks of district sensits.

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which is protected by a padded board, against the projecting end of the rod. The fine shreds of the nut remain for twelve hours in flat pans, in order that they may be partially decomposed. They are then lightly pressed in hand-presses; and the liquor, which consists of one-third oil and two-thirds water, is caught in tubs, from which, at the end of six hours, the oil, floating on the surface, is skimmed off. It is then heated in iron pans, containing 100 liters, until the whole of the water in it has evaporated, which takes from two to three hours. In order that the oil may cool rapidly, and not become dark in color, two pailfuls of cold oil, freed from water, are noured into it, and the fire quickly removed to a distance. The compressed shreds are once more exposed to the atmosphere, and then subjected to a powerful pressure. After these two operations have been twice repeated, the rasped substance is suspended in sacks between two strong vertical boards and crushed to the utmost by means of clamp screws, and repeatedly shaken up. The refuse serves as food for pigs. The oil which runs from the sacks is free from water, and is consequently very clear, and is employed in the cooling

of that which is obtained in the first instance." The factory produces fifteen hundred tinajes of oil. Limited sutput. It is in operation only nine months in the year; from December to February the transport of nuts being pre-

vented by the tempestuous seas, there being no land communication. The manufacturer was not successful in procuring nuts from the immediate vicinity in sufficient quantity to enable him to carry on his operations

<sup>\*</sup> Newly prepared condent oil serves for cooking, but quickly becomes reacht to very generally used for lighting. In Reacys, where is solven convert in a life state, or it does not dissolve until 10° R., (2° C. or 60° Fachs it is used in the monafacture of sapars, but expectably for some, for which it is possiblely adopted. Cooking texts by very lond, and brilligating, which, and is dissolved in daily controlled. Concept easy is very mard, and bruterity white, and is discoved at any woter more ranky then my other soop. The oily out but hately been imported free Brazil into Engined under the name of "coppurath," (open) and pessel offer

\*\*\* THE FORMER PHILIPPINES THRU FOREIGN ETES

without interruption, nor, during the favorable season of the year, could he lay up a store for the winter months. although he paid the comparatively high price of three dollars per thousand.

While the natives manufactured oil in the manner just described, they obtained from a thousand nuts three and a half pots, which, at six reals each, fetched twenty-one reals; that is three reals less than was offered them for the raw nuts. These data, which are obtained from the manufacturers, are probably exaggerated, but they are in the main well founded; and the traveller in the Philippines often has the opportunity of observing similar anomalies. For example, in Daet, North Camarines. I bought six coconuts for one cuarto. at the rate of nine hundred and sixty for one dollar, the common price there. On my asking why no oilfactory had been erected, I received for answer that the nuts were cheaper singly than in quantities. In the first place, the native sells only when he wants money; but he knows that the manufacturer cannot well afford to have his business suspended; so, careless of the result, he makes a temporary profit, and never thinks of ensuring for himself a permanent source of income.

In the province of Laguna, where the natives prepare coarse brown sugar from sugar-cane, the women carry it for leagues to the market, or expose it for sale on the country roads, in small loaves (panuche), generally along with buyo. Every passenger chats with the seller, weighs the loaf in the hand, eats a bit, and probably passes on without buying any. In the evening the woman returns to her home with her wares, and the next day repeats the same process

I have lost my special notes, but I remember that in two cases at least the price of the sugar in these loaves was cheaper than by the picul. Moreover, the

hand, with the greatest certainty, the cost of production of any article; but in the Philippines it is not always so easy. Independently of the uncertainty of labor, the regularity of the supply of raw material is disturbed. not only by laziness and caprice, but also by jealousy and distrust. The natives, as a rule, do not willingly see Europeans settle amongst them and engage successfully in local operations which they themselves do not understand how to execute; and in like manner the creoles are reserved with foreigners, who generally are superior to them in capital, skill, and activity. Besides icalousy, suspicion also plays a great part, and this influences the native as well against the mestizo as against the Castilian. Enough takes place to the present day to justify this feeling: but formerly, when the most thrifty subjects could buy governorships, and shamelessly fleece their provinces, such outrageous abuses are said to have been permitted until, in process of time. suspicion has become a kind of instinct amonest the Filipinos.

## XXI

THE island of Leyte, between 9° 49' and 11° 34' N., Leatand 124° 7' and 125° 9' E. Gr., is above twenty-five miles in length, and almost twelve miles broad, and contains one hundred seventy square miles. As I have already remarked, it is divided from Samar only by the small strait of San Juanico. The chief town, Tacloban or Taclobang, lies at the eastern entrance of this

see THE FORMER PHILIPPINES THRU FOREIGN EYES

strait, with a very good harber and uninterrupted communication with Manila, and has consequently become
the chief emorrhum of trade to Levte, Bilizan, and South

and East Samar 5

Obliging Spenish og

The local governor likewise showed me much obliging attention; indeed, almost without exception I have, since my return, retained the most agreeable remembrances of the Spanish officials; and, therefore, if fitting opportunity occurred, I could treat of the improprieties of the Administration with recent removality.

In the afternoon of the day after my arrival at Tacloban, on a sudden there came a sound like the rush of a furious torrent; the air became dark, and a large cloud of locusts swept over the place.† I will not again recount that phenomenon, which has been so often described, and is essentially the same in all quarters of the globe, but will simply remark that the swarm, which was more than five hundred feet in width, and about fifty feet in depth, its extremity being lost in the forest, was not thought a very considerable one. It caused vigilance, but not consternation. Old and young eagerly endeavored to catch as many of the delicate creatures as they could, with cloths, nets, and flags, in order, as Dampier relates, "to roast them in an earthen non over fire until their legs and wings drop off, and their heads and backs assume the color of boiled crabs:" after which

<sup>•</sup> On Plastens's now Levy's in twiced one or acquired, the mich being chief Bedge, and the result Coylon. When Mapplican's the mich the state of t

process he says they had a pleasant taste. In Burma at the present day, they are considered as delicacine at the royal court.\*

The locusts are one of the greatest plagues of the Plan for their Philippines, and sometimes destroy the baryest of entire provinces. The Legislación Ultramarina (iv. 604) contains a special edict respecting the extirpation of these devastating pests. As soon as they appear, the population of the invaded localities are to be drawn out in the greatest possible numbers, under the conduct of the authorities, in order to effect their destruction. The most approved means for the attainment of this object are set forth in an official document referring to the adoption of extraordinary measures in cases of public emergency; and in this the locusts are placed midway between sea-pirates and conflagrations. Of the various means that have been contrived against the destructive creatures, that, at times, appear in incredible numbers, but have been as frequently ineffectual as otherwise, only a few will be now mentioned. On April 27, 1824, the Socie-

arrived from China; in 1829 a second; and in 1852 again On the following day I proceeded with the priest of Tarloten to Dagami (there are roads in Leyte) from Tacloban south. Tassus. wards to Palos and Tanauan, two flourishing places on the east coast. Hardly half a league from the latter place, and close to the sea, a cliff of crystal lime rock rises up out of the sandy plain, which was level up to this point, It is of a greyish-green quartzoze chlorite schist, from

dad Economica determined to import the bird, the martin (Gracula sp.), "which feeds by instinct on locusts," In the autumn of the following year the first consignment

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\* After the king had withdrawn \* \* "sweetments and cakes in abundants were brought, and also received locusts, which were present upon the goests so great deficacion."—"Col. Fysche's Mission to Mandalay Parliament," Papers, June, 1999.

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<sup>\*</sup> On Physician's man Lepte is divided into two parts, the north bring colled Ballay, and the seath Ceptan. When Magelian in Massam (Limenana) Inquired ofter the seath condensable places of business, Ceptan (i. v. Layte), Caligan (Caraga), and Zuka (Cebu) were arrend to him. Pigat. N.

A According to Dr. Gentractore: Colligion assistant to sum. Prints on J. According to Dr. Gentractore: Colligion assistantia; Carlotten Manisons, Bioprin. The designation of Meyen, which the systemics must have allowed to the process of the systemics to be discount have allowed to the process. The designation of the process of the pro

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THE PORMER PHILIPPINES THRU FOREIGN EYES

which the enterprising Father had endeavored, with a perseverance worthy of better success, to procure lime by burning. After an ample breakfast in the convent, we proceeded in the afternoon to Dagami, and, on the next day to Burauer.

4 pleasing neogle.

The country was still flat. Coco-groves and ricefields here and there interrupted the thick forest; but the country is thinly inhabited, and the people appear more cheerful, hendsomer, and cleaner than those of Samar. South of Burauen rises the mountain ridge of Manacagan, on the further slope of which is a large solfatura, which vields sulphus for the pounder manufactory in Manila and for commerce. A Spanish sailor accompanied me. Where the road passed through swamp we rode on carabaos. The pace of the animals is not unpleasant, but the stretching across the broad backs of the gigantic carabass of the Philippines is very fatiguing. A quarter of an hour beyond Burauen we crossed the Daguitan, which flows south-west to north-east, and is a hundred feet broad, its bed being full of large volcanic blocks; and, soon after, a small river in a broad bed; and, some hundred paces farther, one of a hundred and fifty feet in breadth; the two latter being arms of the Burauen. They flow from west to east, and eater the sea at Dulay, The second arm was originated only the preceding year.

The height of hospitality. during a flood.

We passed the night in a hut on the northern slope of the Manacagan, which the owner, on seeing us approach, had voluntarily quitted, and with his wife and child sought other logdings. The cuttoms of the country require this when the accommodation does not suffice for both parties; and payment for the same is metther

demanded nor, except very rarely, tendered.

\* The sames of these two localities, on Cocile's map, are confounded. Bursting lies south of Danzel.

About its o'clock on the following morning was started; potand about half-post is diffinished, by a phessoat path. Wethrough the forest, to the ridge of the Manacagan, which consists of stractly to inchmist noise a stract seven o'clock consists of stractly to morning morth-owest, and then, and the stractly of the stractly of the stractle of the

The raw material obtained from the solfators is status bought in three classes: firstly, sulphur already melted to crusts; secondly, sublimated, which contains much condensed water in its interstices; and thirdly, in the clay which is divided into the more or less rich, from which the greatest quantity is obtained. Coconut oil. which is thrown into flat iron pans holding six arrobas, is added to the sulphurous clay, in the proportion of six quarts to four arrobas, and it is melted and continually stirred. The clay which floats on the surface, now freed from the sulphur, being skimmed off, fresh sulphurous clay is thrown into the cauldron, and so on. In two or three hours six arrobas of sulphur, on an average, may be obtained in this manner from twenty-four arrobas of sulnhurous clay, and, poured into wooden chests, it is moulded into blocks of about four arrobas. Half the oil employed is recovered by throwing the clay which has been saturated with it into a frame formed by two parrow bamboo hurdles, placed at a sharp angle. The oil drops into a sloping gutter of bamboo which is placed underneath, and from that flows into a not. The price of the sulphur at Manila varies between price \$1.25 and \$4.50 per picul. I saw the frames, full of clay, from which the oil exuded: but the operation itself I did

not, unfortunately, then witness, and I cannot explain in what manner the oil is added. From some experiments made on a small stells, therefore under essentially different conditions, and never with the same material, it appeared that the oil accelerates the separation of the sulphur, and resters the access of the air to the sulphur. In these experiments, the sulphur contained in the bottom of the exculded was always colored balock by the separation of charcoal from the oil, and it was necessary to purify it by dutilation beforehand. Of this, however, the smelters at Leyte made no mention, and they even had no apparasion for the purpore, which their sulphur had no apparasion for the purpore, which their sulphur

Some hundreds of paces further south, a hot spring (50° R.),\* twelve feet broad, flows from the east, depositing silicinus sinter at its edges.

As we followed a ravine stretching from north to south, with sides one hundred to two hundred feet in height. the vegetation gradually ceased, the rock being of a dazzling white, or colored by sublimated sulphur. In numerous places thick clouds of vapor burst from the ground, with a strong smell of sulphurated water. At some thousand pages further, the ravine bends round to the left (east), and expands itself to the have and here numerous silicious springs break through the loose clay-earth, which is permeated with sulphus. This solfatara must formerly have been much more active than it is now. The ravine, which has been formed by its destruction of the rock, and is full of lofty heaps of débris, may be one thousand feet in breadth, and quite five times as long. At the east end there are a number of small, boiling quagmires, which, on forcing a stick into the matted ground, send forth water and steam.

<sup>\* 62.5</sup> Cent. or 144.5 Pahr .-- C.

In some deep spots further west, grev, white, red. and vellow clays have been deposited in small beds over each other, giving them the appearance of variegated marls. To the south, right opposite to the ridge which leads to Permiss

Burauen, may be seen a basin twenty-five feet broad. in a cavern in the white decomposed rock, from which a petrifying water containing silicious acid flows abundantly. The roof of the cavern is hung with stalactites. which either are covered with solid sulphur, or consist

entirely of that substance. On the upper slope of the Danan mountain, near to the Danas

summit, so much sulphur is deposited by the vapors from the sulphurated water that it may be collected with coconut shells. In some crevices, which are protected against the cooling effects of the atmospheric air, it melts together in thick, brown crusts. The solfatara of Danan is situated exactly south of that below, at the end of the rayine of the Kasiboi. The clay earth, from which the cilicic acid has been washed out by the rains. is carried into the valley, where it forms a plain, the greater part of which is occupied by a small lake. Malaksan (sour), slightly impregnated with sulphuric acid. Its surface, which, by reason of the very flat banks, is protected against the weather. I found to be about five bundred paces long and one hundred broad. From the elevation of the solfatara, a rather large fresh-water lake, surrounded by wooded mountains, is seen through a gap, exactly south, which is named Jaruanan. The night was passed in a ruined shed at the south-east of the lake Malaksan; and on the following morning we climbed the south side of the mountain ridge and, skirting the solfators of the Danon, arrived in an hour and a helf at lake Tarmanan This lake, as well as the Malaksan, inspires the natives Jarusus Lake.

with superstitious fear on account of the suspicious

neighborhood of the solfatara, and therefore has not been professed by either mariner, fisher, or swimmer, and was very full of fish. For the purpose of measuring its depth. I had a raft of bamboos constructed; and when my companions saw me floating safely on the lake, they all, without exception, sprang into it, and tumbled about in the water with infinite delight and loud outcries, as if they wished to indemnify themselves for their long abstinence; so that the raft was not ready before three o'clock. The soundines at the centre of the basin, which was, at the southern edge, steeper than on the north, gave thirteen brazas, or over twenty-one meters of depth; the greatest length of the lake amounted to nearly eight hundred varas (six hundred and sixtyeight meters), and the breadth to about half as much. As we returned in the evening, by torchlight, over the crest of the mountain to our night-quarters at the lake, we passed by the very modest dwelling-place of a married pair. Three branches, projecting outwards from the principal trunk of a tree, and lopped at equal points, sustained a hut of bamboos and palm-leaves of eight feet square. A hole in the floor formed the entrance. and it was divided into a chamber and ante-chamber, and four bamboo poles supported, above and below, two layers of bamboos, one of which furnished a balcony,

The day after my return to Burauen an obliging Spanish merchant drove me through the fertile plain of volennie sand, on which rice, maire, and sugar-cane were cultivated, to Dulag, which like directly to the west, on the shore of the tranquil sea. The distance (according to Goello three leagues) in Bid directly to the west, on the shore of the trangual sea. The distance (according to Goello three leagues) and Goldon, the court point of Samar, appears like on island separated from the maintand, and further postift (N; 12\* 4\* to 120\* 56\* 55.)5-

and the other a shop in which betch was sold.

moniol is seen, the first island of the Archipelago sighted by Magellan on April 16, 1521. At Dulag, my former companion joined us in order to accompany us on the journey to the Bito Lake. The arrangement of tronsportation and of provisions, and, still more, the due consideration of all the propositions of three individuals. each of whose claims were entitled to equal respect. occupied much time and required some address. We at length sailed in a large casco (barge) southwards slong the coast to the mouth of the river Mayo, which. Up Maye River according to the map and the information there given. is said to come from the Bito Lake. We proceeded upwards in a boat, but were informed at the first hut that the lake could be reached only by making a long circuit through swampy forest; when most of our party proposed to return. Various reasons besides the want of unanimity in the conduct of our adventure, which had proceeded thus far, delayed our arrival at Abuyoz until eleven o'clock at night. In the first place, on our way, we had to cross a small branch of the Mayo, and after that the Bito River. The distance of the latter from Abuyog (extravagantly set down on Coello's map) amounts to fourteen hundred brazas, according to the measurement of the gobernadoreillo, which is prob-

appeared to us to be what most probably awaited us.

On the morrow, through a pleasant forest road, we are less reached in an hour the Bito River, and proceeded in

boats, which we met there, up the river between flat

A small river enters the sea \$55 brozen south of the tower of Abuyon.

sandy banks covered with tall cane and reeds. In about ten minutes, some trees fallen right across the stream compelled us to make a circuit on land, which in half an hour brought us again to the river, above the obstocles. Here we constructed rafts of hambon upon which, immersed to the depth of half a foot, the material being very loosely adjusted, we reached the lake in ten minutes. We found it covered with green conference: a double harder of nistin and broad-leaved read graces six to seven feet high, enclosing it all round. On the south and west some low hillocks rose up, while from the middle it appeared to be almost circular, with a girdle of forest. Coello makes the lake much too large (four instead of one square mile), and its distance from Abuyog can be only a little over a league. With the assistance of a cord of lianas tied together, and rods placed in a line, we found its breadth five hundred and eighty-five beaves or nine hundred and seventy-seven meters, (in the broadest part it might be a little over one thousand meters); and the length, as computed from some imperfect observations, one thousand and seven brazas (sixteen hundred and eighty meters), consequently less than one square mile. Soundings showed a gently inclined basin, eight brazas, or over thirteen meters. deep in the middle. I would gladly have determined the proportions with more accuracy; but want of time, the inaccessibility of the edge of the bank, and the miserable condition of our raft, allowed of only a few rough measurements.

measurements.

An to a trace of human habitations was observable on the abore; but a quarter of an hour's distance from the northern edge we found a comfortable hut, surrounded by deep mud and prickly calamus, the tenants of which, however, were living in plenty, and with greater conveniences than many deallers in the villages. We were

very well received and had fish in abundance, as well as tomatoes and considum to season them with and dishes of English earthenware out of which to eat them.

The shundance of wild swine had led the settlers to coninvent a peculiar contrivance, by which they are apprised of their approach even when asleep, and guided to their trail in the darkness. A rope made of strips of banana tied together, and upwards of a thousend feet in length, is extended along the ground, one end of which is attached to a coconut shell, full of water, which is suspended immediately over the sleepingplace of the hunter. When a pig comes in contact with the rope, the water is overturned by the jerk upon the sleener, who, seizing the rone in his hand, is thereby conducted to his prey. The principal employment of our hosts appeared to be fishing, which is so productive that the roughest apparatus is sufficient. There was not a single boat, but only loosely-bound rafts of hambon. on which the fishers, sinking, as we ourselves did on our raft, half a foot deep, moved about amongst the crocodiles, which I never beheld in such numbers and of so large a size as in this lake. Some swam about on the surface with their backs projecting out of the water. It was striking to see the complete indifference with which even two little cirls worled in the water in the face

to be satisfied with their ample rations of fish. Four kinds of fish are said to be found in the lake, amongst them an eel; but we got only one." Early on the following morning our native attendants A seed six. were already intoxicated. This led to the discovery of another occupation of the settlers, which I do not hesitate to disclose now that the Government monopoly

of the great monsters. Fortunately the latter appeared

<sup>\*</sup> Orbita sinais Stude Store

has been shollahed. They secretly distilled palm-brandy and carried on a considerable trade in it; and this side explained to me why the horrors of the road to the Mayor River and to Alwayog had been painted in such warm colors. We returned on our rafts to the place where we had found them, a distance of about fifteen handled of the control of the c

Not long ago much tobacco was cultivated in this country, and was allowed to be sold to the peasantly under certain conditions; but recently it was forbidden to be sold, except by the Government, who themselves determined its value at to very low a rate that the culture of tobacco has inston entirely exceed. As the tobacco company, however, had already exceed stores and appointed coidectors, the innoving one nightly foreast which were attend to be a sold to be considered to the control of the con

The lake at that time had but one outlet, but in the wet season it may be in connection with the Mapp, which, at its north-case side, is quite flat.
 Or some thirty-clayly rank if the old Datch this inverse on.

## XXII

The Binyman-at heart the inhabitants of the Islands of Tri-Binsens Boarn and Leyfe (Islave not become closed) sequalisated with any others)—belong to one race. They see, physically and inclinectually, in character, dress, manners and customs, so similar that my notes, which were originally made at different points of the two Islands, have, after removal of the memorous control of the control to one, which are the control of the control

There are no Negritos other in Sannar or Leytz, but Monatoner (Characterises, who was not little; and who do not till the in villages, but independently in the forests. Unfortunately I have held no personal intercents with those and what I have learned respecting control of the second of the sec

4. Finishin, or Buyan, occurring in a paties used planning the first in the land interest of the land interest

they are accustomed to repeat some mutilated Catholic

prayers, which they appear to consider as efficacious as their old heathenish ones. Some have their children baptized as well, as it costs nothing; but, save in these respects, they perform no other Christian or civil obligations. They are very peaceable, neither making war with one another, nor having poisoned arrows. Instances of Cimarronese, who go over to Christianity and villase life, together with tribute and servitude, are very rare; and the number of the civilized, who return to the forests in order to become Cimarronese, is, on the other hand, very inconsiderable indeed-still smaller than in Luzon, as the natives, from the dull, almost vegetating life which they lead, are not easily brought into such straitened circumstances as to be compelled to leave their village, which, still more than in Luzon, is all the world to them.

Rice foresing.

The culture of rice follows the seasons of the year. In some places where there are large fields the plough (arado) and the sod-sod (here called sured) are employed; but, almost universally, the rice-field is only trodden over by carabaos in the rainy season. Sowing is done on the west coast in May and June, planting in July and August, and reaping from November to January, One ganta of seed-corn gives two, sometimes from three to four, cabanes (i. c., fifty, seventy-five, and a hundred fold). In the chief town, Catbalogan, there are but very few irrigated fields (lubigan, from tubig, water), the produce of which does not suffice for the requirements, and the deficiency is made up from other places on the coasts of the Island. On the other hand, Cathaloren produces abaca, coco-nut oil, wax. balate (edible holothuria, sea cucumber), dried fish, and woven stuffs. On the north and east coasts sowing takes place from November to January, and reaping six months later. During the remaining six months the field serves as

pasture for the cattle; but in many places rice culture goes on even during these months, but on other fields. A large portion of this rice is frequently lost on account of the had weather.

Purchases of land are seldom made, it being gen- Landbrown. erally acquired by cultivation, by inheritance, or forfeiture. In Cathalogan the best rice land was paid for at the rate of one dollar for a ganta of seed-corn, and, on the north coast of Lauang, a field producing yearly one hundred cabanes was purchased for thirty dollars. Reckoning, as in Naga, one ganta of seed-corn at four loanes, and seventy-five cabanes of produce at one quiñon, the eastern rice land costs, in the first instance, three thalers and a third, in the second three thalers. The owner lets the bare property out on leases, and receives one-half the harvest as rent.\* The cultivation of rice in Leyte is conducted as in Samar, but it has given way to the cultivation of abaca; the governors, while they were allowed to trade, compelled the natives to devote a part of their fields and of their labor to it. Should a peasant be in arrears, it is the prevalent custom in the country for him to pay to the dealer double the balance remaining due at the next harvest.

Mountain-rice culture, which in Cathologan is almost Massacrin.

the only cultivation, requires no other implement of agriculture than the bolo to loosen the soil somewhat, and a sharp stick for making holes at distances of six inches for the reception of five or six grains of rice. Sowing is done from May to June, weeding twice, and five months later it is cut stalk by stalk; the reaper receiving half a real daily wages and food. The produce is between two and three cabanes per ganta, or fifty

<sup>\*</sup> Merceria (Italian): selemen (Percel)

to seventy fold. The land costs nothing, and wages amount to nearly five reals per gasta of seed-com. After a good harvest the caban fetches four realer; but just before the harvest the price rise to one dollar, and often much higher. The ground is used only once for dry rice; cannot chartani, aback, and candidum being planted on it after the harvest. Mountain rice is more remunerailve. Unan watered rice about in the proportion of ainse value.

Diter products. Next to rice the principal articles of sustenance are

cemente (constibulus biolatios), abl (discoveron), gabi (caliadishim), palasma (a large orum, with taper news and apport to stalk)). Cannote can be plasted all the year around, and riperas in four months; but it takes place generally and riperas in four months; but it stokes place generally able. When the cultivation of camore is retained, the old plants are allowed to multiply their runners, and only the tubers are taken out of the ground. But larger produces in obtained by cleaning out the ground and produces in obtained by cleaning out the ground and be half or half a real. Although there are larger interes interesting or abased, during

my visit it was but little cultivated, the price not being sufficiently remunerative.

sufficiently remunerative.

Tobacco also is cultivated. Formerly it might be sold in the country, but now it has to be delivered to the government.

Notes oil

A reshous oil (holes or molapsis) is found in Samar and Albay, probabbly also in other provinces. It is elatined from a dipterocarpus (rpiton), one of the lottest trees of the forest, by cutting in the trusk o wide hole, half a foot deep, hallowed cut into the form of a basin, and from time to time lighting a fire in it, so as to free the channels, through which it flows, of obstructions. The oil thus is collected daily and comes

into commerce without any further preparation. Its chief application is in the preservation of iron in ship. building. Nails dipped in the oil of the balso, before being driven in, will, as I have been assured by credible individuals, defy the action of rust for ten years; but it is principally used as a varnish for shine which are painted with it both within and without, and it also protects wood against termites and other insects. The balao is sold in Albay at four reals for the tinais of ten gantas (the liter at eight pence). A cement formed by the mixture of burnt lime, gum elemi, and coronut oil in such proportions as to form a thick pastebefore application, is used for the protection of the bottoms of thips; and the coating is said to last a year.\* Way wis bartered by the Cimarronese. The whole of Samar annually yields from two hundred to three hundred piculs, whose value capres between twenty-five and fifty dollars per picul, while in Manila the price is generally five to ten dollars higher; but it fluctuates very much, as the same product is brought from many other localities and at very irregular intervals of time.

There is hardly my breeding of eatth, netwith-newly attaining the lawrisming gooth of greess and the abence and of destructive animals. Horses and carabas are very fare, and are asid to lawe been introduced late, not before the present century. As in Somar there are, hardly any other country roads than the seabore and the shallow bods of rivers (it is better in the north of Leyth), the carabon is used only once every year in treading over the earth of the rice-field. Disting the years lev comes at large on the pattures, in the forest,

• In China an oil is produced from the scade of servicio meabou, which, by the addition of siam, interact, and strattle, with a serule less, easily forms a valuable searched, which, when mixed with rate, is compayed in replacing the bittors of vessels watertight. P. Champien, Infect. Auc. at Mos. de l'Emp. Chinagi. "I also a latertight." THE FORMER PHILIPPINES THRU FOREIGN EYES hood. Some times in the year one may see several

cambons, attached to the large trunk of a tree, dragging it to the village. Their number, consequently, is extremely small. Carabase which tread the rice land well are worth as most as ten dollars. The mean price was the same and the same and the same as caraballa. Horseld cattle are only occasionally used as witcins at feeliwid. The property of several owner, they are very limited in number, and live half-wide in the mountains. There is hardly any trade in them, and the mountains. There is hardly any trade in them of the same and the original trade in the mountain of the same and the original trade in the same and the s

when we are a servent numer, event note than a cowper vent and or servent numer, event note than a cowport is entertain to their feats. Growing beef, but
that from three to four dollers would, under (avorable
circumstances, be got on that account for a fat animal.

Sheep and goats thrive well, and propagate easily, but
also eats not) in mail numbers, and are hardly utilized
either for their wood or their flesh. Groole and mestistates that the state of the state of the state of the state
of the first the roat part to fold even to keep theirpoter for the roat part to fold even to keep theirpoter first the roat part to fold even to keep theirpoter first the roat part to fold even to keep theirpoter first the roat part to fold even to keep theirpopropagate famously. A laying her cost half a real, a
notest the stone, and a game code as much as three
dollars, often condidenably more. Si for eight heats,
or thirty eggs, may be loogult for one real.

A family considerably for fatter, mostlyer, and five children.

a lookest take amore, and a game cock as much as three to be considerably more. Six or eight heast, or they may be consistent of the control of the control

per cayan; before it, ten; and in Albay, even about

thirty reals. Then about three cuartus are wanted for extras das fish, reals, vegetables, etc.), which, however, are generally collected by the children and, lastly, for oil two cuartos, buye one cuarto, to the control con

For cichning a mon requires yearly—four rough Gubra outhists of guizarms, custing from one to two reals; three or four pairs of trousers, at one to two and a half real; two kerrichies for the head, at one and a half real; that the very contract of the such as a second of the reals; use fine hist, a dellar or more; and for reals; use fine hist, a dellar or more; and fine pantaloons, at four reals. A woman requires—four to six camises of guizars, at one real; two to three says of guizars, at three to four reals, and one or two says of European printed cotton, after reals to head-developed European printed cotton, after reals to head-developed of slippers (duffer two reals; and one or two pairs of slippers (duffer) to go to mass is, it two reals and

upwards.

The word of entitle processing the second of the control of the control

THE PROMES POLITOPINES THE PRESIDENT FOR

with a finer one for the festivals, eight reals. Underskirts are not worn; and the clothing of the children

may be estimated at about half of the above rates. For household furniture a family has a cooking not\* of unglazed burnt clay, imported by ships from Manile

the cost of which is fixed by the value of its contents in rice; a supply of bamboo-canes; seven plates, costing between two and five cuartos: a cuvulori (iron nan) three to four reals; coconut shells serving for glasses; a few small pots, altogether half a real; a sundana, four to six reals, or a bolo (large forest knife), one dollar: and a pair of scissors (for the women), two reals. The loom, which every household constructs for itself of bamboo of course costs nothing

The rate of daily wages, in the case of Filipino emplayers, is half a real, without food; but Europeans always have to give one real and food, unless, by favor of the gobernadorcillo, they get polisias at the former rate, which then regularly goes into the public coffers. An ordinary carpenter earns from one to two reals: a skilful man, three reals daily. The hours of work are from six to noon, and from two to six in the evening,

Almost every village has a rude smith, who understands the making of sundangs and bolos; but the iron and the coal required for the purpose mut be supplied with the order. No other work in metal is executed. With the exception of a little ship-building, hardly any other pursuit than weaving is carried on; the loom is rarely wanting in a household. Guinara, i. c., stuff made of the abach is manufactured, as well as also some pinn, or figured silk stuffs, the silk being brought from Manila, and of Chinese origin. All these fabrics are made in private homes; there are no factories, Petabeld: ("Concessa," I. 203) mentions that in Bondewi the price of a clay reasel is determined by its capacity of mairs.

In places where rice is scarce the lower class of pennle Berte. eatch fish, salt and dry them, and barter them for rice. In the chief towns purchase are made with the evenest money: but, in the interior, where there is bardly any money. fabrics and dried fish are the most usual means of exchange. Salt is obtained by evaporating the seawater in small iron hand-pans (carahais), without previous evaporation in the sun. The navigation between Cathalogan and Manila continues from December to July, and in the interval between those months the shins lie dismantled under sheds. There also is communica- commution by the coast eastwards to Guian, northwards to celler Catarman, and sometimes to Lauang. The crews consist partly of natives, and partly of foreigners, as the natives take to the sea with great reluctance; indeed. almost only when compelled to leave their villages. Samar has scarcely any other means of communication besides the navigation of the coast and rivers, the interior being roadless; and hurdens have to be conveyed on the shoulders. An able-bodied porter, who receives a real and a half without food, will carry three arrobas (seventyfive pounds at most) six leagues in a day, but he cannot accomplish the same work on the following day, requiring at least one day's rest. A strong man will carry an arroba and a half daily for a distance of six leagues

There are no markets in Samar and Leyte; so that No markets, whoever wishes to buy seeks what he requires in the houses, and in like manner the seller offers his goods.

A Filipino seeking to borrow money has to give ample DAM
security and pay interest at the rate of one real for every
dollar per month (twelve and one-half per cent, monthly);
and it is not easy for him to borrow more than five dollars,
for which sum only he is legally liable. Trade and credit
are less developed in center and onethers Ramer than

for a whole week

in the western part of the island, which keeps up a more

active communication with the other inhabitants of the Archipelago. There current money is rarely lent, but only its value in monds is advanced at the rate of a real per dollar per mensem. If the debtor fails to pay within the time appointed, he frequently has to part with one of his children, who is obliged to serve the lender for his bare food, without wages, until the debt has been extinguished. I saw a young man who had so served for the term of five years, in liquidation of a debt of five dollars which his father, who had formerly been a gobernadoreillo in Paranas, owed to a mestizo in Cathalogan; and on the east coast a pretty young girl, who, for a debt of three dollars due by her father, had then, for two years, served a native, who had the reputation of being a spendthrift. I was shown in Borongan a coconut plantation of three hundred trees, which was pledged for a debt of ten dollars about twenty years ago, since which period it had been used by the creditor as his own property; and it was only a few years since that, upon the death of the debtor, his children succeeded, with great difficulty, in paying the original debt and redeeming the property. It is no uncommon thing for a native to borrow two dollars and a half from another in order to purchase his exemption from the forty days of annual service, and then, failing to repay the loan punctually, to serve his creditor for a whole year."

Prople of

The inhabitants of Samar and Leyte, who are at once idler and filthier than those of Luzon, seem to be as much behind the Bicols as the latter are behind the Targlors.

. As small these thouse sering frees the mon-rufereement of a similar parameter. It is not to the control of th

In Tacloban, where a more active intercourse with Manile exists, these qualities are less pronounced, and the women, who are agreeable, bathe frequently. For the rest, the inhabitants of the two islands are friendly. obliging, tractable, and peaceable. Abusive language or violence very rarely occurs, and, in case of injury information is laid against the offender at the tribunal. Great purity of manners seems to prevail on the north and west coasts, but not on the east coast, nor in Leyte. External piety is universally conspicuous, through the training imparted by the priests: the families are very united, and great influence is wielded by the women, who are principally engaged in household employments, and are tolerably skilful in weaving, and to whom only the lighter labors of the field are assigned. The authority of the parents and of the eldest brother is supreme, the vouncer sisters never venturing to oppose it; women and children are kindly treated.

The natives of Leyte, clinging as strongly to their Leyte, native soil as those of Samar, like them, have no partiality for the sea, though their antipathy to it is not quite so manifest at that of the inhabitants of Semer.\*

There are no benevolent institutions in either of the Park Annaly two islands. Each family maintains its own poor and "ownest. erippied, and treats them tenderly. In Catbalogan, the chief town of the island, with five to six thousand inhabitants, there were only eight recipients of charity; but in Albay mendicants are not wanting. In Lauang, when a Sanaira(o, on a solemn featival, had caused it to

be proclaimed that he would distribute rice to the poor, not a single applicant came forward. The honesty

\*\*Preserie in appears to have been different with cham. "These Blasyans of a particular, in a per trial in supposition and capter for year all that disposed to appreciate, in a per trial in supposition and capter for year all that it is a fair to study to the field in section to staff."

of the inhabitants of Samar is much commended. Obligations are said to be contracted almost always without written documents, and never foraworm, even if they make default in payment. Robberies are of rare cecurrence in Samar, and thefis almost unknown. There are schools also here in the pueblos, which accompilsh quite as much as they do in Camarines.

occurrence in Samar, and thefar admost unknown. There are schools also her in the pubblos, which accomplish quite as much as they do in Camarian.

Of the public amusements cock-fighthing is the chief, but it is not so eagerly pursued as in Luzen. At the but it is not so eagerly pursued as in Luzen. At the but is not so eagerly pursued as in Luzen. At the but is not so eagerly pursued as in Luzen. At the but is not so eagerly pursued as in Luzen. At the but have been supported as definition of a distribution of the public scapens of the easternament is defrayed by volunt due contributions of the wealthy. The chief views of the

The marriage feats, combining using and disnes, orien continue for several days and olights together, where they have a sufficient supply of food and dust, but they are sufficient supply of food and dust, but they are sufficient to the but they are sufficient to the price of the price of the sufficient two, three, and even five years, before the price of the but they are done of the price of the but they are the sufficient two the but to the but the bat to supply the vegetables himself. At the explication of his term of service be builds, with the assistance of his term of service be builds, with the assistance of his

population are play and drunkenness; in which latter even women and young girls occasionally indules.

relations and friends, the house for the family which is about to be newly established.

Though adultery is not unknown, jealousy is rare, and never leads to violence. The injured individual generally goes with the culprit to the minister, who,

. House prevails or term state, although rechired by a stringent low the non-interest and the state of the st

with a severe lecture to one, and words of consolation to the other, sets everything straight again. Married women are more easily accessible than girls, whose prospect of marriage, however, it seems is not greatly diminished by a false step during single life. While under parental authority girls, as a rule, are kept under rigid control, doubtless in order to prolong the time of servitude of the suitor. External appearance is more strictly regarded among the Bisayans than by the Bicols and Tagalogs. Here also the erroneous opinion prevails, that'the number of the women exceeds that of the men. Instances occur of girls of twelve being mothers; but they are rare; and though women bear twelve or thirteen children, many of these, however, do not live. So Great supermuch so is this the case, that families of more than six mention.

or eight children are very rarely met with,

Superstition is rife. Besides the little church images Superstitions. of the Virgin, which every Filipina wears by a string round the neck, many also have beathen amulets, of which I had an opportunity of examining one that had been taken from a very daring criminal. It consisted of a small ounce flank, stuffed full of vegetable root fibres. which appeared to have been fried in oil. This flask, which is prepared by the heathen tribes, is accredited with the virtue of making its owner strong and coursgeous. The capture of this individual was very difficult; but, as soon as the little flask was taken from him, he gave up all resistance, and allowed himself to be bound. In almost every large village there are one or more Assemb families who are generally dreaded and avoided, outst. and regarded as outlaws, and who can marry only amongst themselves. They have the reputation of being cannibals.\* Perhaps they are descended from such

tribes? At any rate, the belief is very general and firmly \* Wis- Amazo is the choul of the Arabian Nights' tales. - C.

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rooted; and intelligent old natives when questioned by me on the subject, answered that they certainly did not believe that the Asuangs are men at the present time,

not be subject, answered that they certainly did not believe that the Assuangs ate men at the present time, but that their forefathers had assuredly done so.\* Of ancient learneds, traditions, or bullads, it is stated

that there are none. It is true they have song at their dances, but these are spirities improvisations, and mostly in a high key. They have not preserved any memorials of the property of the property of the property of the other contractions of the property of the house, without any special solemnity."—(Alonye, I. 48 by . Pigafette, 0.92 certainly mentions that the King of Cebu, after his conversion to Christianity, caused many temples built on the seakore to be destroyed:

but these might only have been structures of a very perishable kind. On certain occasions the Bisayans celebrated a great festival, called Pandol, at which they worshipped their gods in buts, which were expressly built for the purpose, covered with foliage, and adorned with flowers and lamps. They called these buts simba or simbakun (the churches are so called to the present day), "and this is the only thing which they have similar to a church or a temple"-(Infame, I., i., 17). According to Gemelli Careri they prayed to some particular gods. derived from their forefathers, who are called by the Bisayans Davata (Divata), and by the Tagalogs Anito; one anito being for the sea and another for the house. to watch over the children.† In the number of these anitos they placed their grandfathers and great-grandfathers, whom they invoked in all their necessities, and

Inthers, whom they invoked in all their necessities, and

"Virtually enabled are not assessment by the older numbers on the Paligner, principle of the principle of the pale of the pale of the pale
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morable.

with the exception of the lumon-piete, on the ent coast, of fifth the part cuttom.

1 The Audio occurs unrenget, the tribes of the Malaysia Architectus, that the Audio of the Philippines is exsented to the Malaysia Architectus, see Ante. year Acto is retarn of a demonstrack limit. In a protecting again, while the Malaysia Architectus against a first again and the Malaysia against the Architectus aga

in whose honor they preserved little statues of stone. wood, gold, and ivory, which they called liche or larauan. Amongst their gods they also reckoned all who perished by the sword, or were killed by lightning, or devoured by erocodiles, believing that their souls ascended to heaven on a bow which they called bulangas. Pigafetta thus describes the idols which were seen by him:--"They are of wood and concave, or hollow, without any hind quarters, with their arms extended, and their legs and feet bent upwards. They have very large faces, with four powerful teeth like boars' tusks, and are painted oll over "a

In conclusion, let me take a brief account of the religion of the ancient Bisayans from Fr. Gasnar San Assisting (Conquest, 169):

The demon, or genius, to whom they sacrificed was 641 religion called by them Dirata, which appears to denote an antithesis to the Deity, and a rebel against him. Hell was called Soloil, and Heaven (in the language of the educated people) (House \* \* \* The souls of the departed go to a mountain in the province of Otonf, called Medias, where they are well entertained and served. The creation of the universe is thus explained. A vulture Greation raph. hovering between heaven and earth finds no place to settle himself upon, and the water rises towards heaven; whereupon Heaven, in its wrath, creates islands. The

woman, who beget many children, and, when their number becomes too great, drive them out with blows. \* Thus ided impact have over over other my observable. These figured in Balesia and Hermonia A week of the Ethiogenshide Mustern of Belle in Balesia and Hermonia A week of the Ethiogenshide Mustern of Belle in the Compact of the Ethiogenshide Mustern of Belle in the Ethiogenshide Mustern of the State of such here of may request by the direction of the invirues, do not entirily correspond to the above description, priorities rather to the wat copies of America, the priorities field of (Ignation's reservoirs. The Medicale Matazine, from his posspons to the above description, poissing rather to the west coast of America, the principal field of Hannier's reservoirs. The Arthonic Maistree, from his post-players, they were a proper, the west of the principal on information respecting the origin of these

vulture splits a bamboo, out of which spring man and

1 On the Island of Pantry.

Some conceal themselves in the chamber, and these become the Datos; others in the kitchen, and these become the slaves. The rest go down the stairs and become the people

## XXIII

In 1830 seven new ports were opened as an experiment. Posts of estry. but, owing to great frauds in the charges, were soon afterwards closed again. In 1831 a custom-house was established at Zamboanga, on the south-west point of Mindanao; and in 1855 Sual, in the Gulf of Lingayen, one of the safest harbors on the west coast of Luzon. and Ilolo in Panay, were thrown open; and in 1863 Cebu, on the island of the same name, for the direct

communication with foreign countries. Before 1635 the Spaniards had established a fort at Zamboanga, which, although it certainly could not

wholly prevent the piratical excursions against the colonies, yet considerably diminished them,\* Until 1848 from eight hundred to fifteen hundred individuals are stated to have been carried off yearly by the Moros. The establishment of this custom-house has, therefore, been based upon political rather than commercial motives, it being found desirable to open an easily accessible place to the piratical states of the Sulu Sea for the disposal of their products. Trade, up to the present date, is but of very inconsiderable amount, the exports consisting chiefly of a little coffee (in 1871 pearly six thousand piculs), which, from had monagement, is worth thirty per cent, less than Manila coffee.

and of the collected products of the forest and of the water, such as wax, birds'-nests, tortoise-shell, pearls, mother-of-pearl, and edible holothuria. This trade,

\* As on example, in osticipation of an attork on Correnz, all the available Morea extended the latent of the free collected round Martin, and the Morea extended the latent outside whips, whereas fearedly their accurants used not to extend six or right ships. Torrubia, p. 163. " Hiskoys Mergin, Approx. 350. as well as that with Sulu, is entirely in the hands of the Chinese, who alone possess the patience, adaptiveness, and adroitness which are required for the purpose.

and adroitness which are required for the purpose.

Sual is specially important for its exports of rice; Sual's and its foreign trade is therefore affected by the results roote of the heavest in Salaco Burons and China. In 1858.

when the harvests in those countries turned out good,
Sual carried on only a coasting trade.
Cebu (with a population of 34,000) is the chief town Cebu.

Negros eighteen miles.

from Panny.

of the island of the same name, the seat of Government and of the bilstop of the Bilssya, and within fortyeight hours from Manila by steamer. It is an favorably situated with regard to the eatern portion of the Bilssya group as Itolio is for the western, and is acquiring increased importance as the emporium for its products. Bugar and tobacco are obtained from Behol; rise from Panny; abacis from Leyer and Mislanan; and offset, Panny; abacis from Leyer and Mislanan; and offset, Government of the Company of the Company of the Company of the form Leyer two and a hall, from Behol; four, and from from Leyer two and a hall, from Behol; four, and from

The island of Cebu extends over seventy-five square Cos-cost.

Incl. A folly mountain range traverse if from north to south, dividing the cast from the west side, and its population is estimated at 34,000,04—333 to the square mile. The inhabitants are psecable and docliet thefis occur very seldent, and robberies nover. Their occupations are agriculture, fishing, and weaving for home consumption. Cebu professes sugare, tobulece, mailer, rice, etc., and in the mountains potatoes but the rice produced control of the cost of the cos

The island possesses considerable beds of coal, the Land issue, full yield of which may now be looked for, as the duty

on export was abandoned by a decree of the 5th of May. 1860 \* While in Luzon and Panay the land is for the

most part the property of the peasantry, in Cebu it mostly belongs to the mestizos, and is let out by them in very small allotments, upon lesse. The owners of the soil know how to keep the peasants in a state of dependence by usurious loans; and one of the results of this abuse is that agriculture in this island stands lower than in almost any other part of the archipelago.† The entire value of the exports in 1868 amounted to \$1.181.050; of which sugar to the value of \$481,127, and abaca to the value of \$378.256; went to England. abacá amounting to \$112,000 to America, and tobacco to \$118.260 to Spain. The imports of foreign goods. mostly by the Chinese, come through Manila, where they purchase from the foreign import houses. The value of these imports amounted in 1868 to \$182,522; of which \$150,000 were for English cotton stuffs. The entire imports of the island were estimated at \$1,243,582. and the exports at \$226,898. Among the importations were twenty chests of images, a sign of the deeplyrooted worship of the Virgin. Formerly the products

According to the Notice of Invites Admit 100, as 11, 244, the seed from the mountain of Appace, in the Music of Chips, 16, chips, 16 brien, but him not sufficient leveling power to no tens, seminary and an elega few topological power for Professional Prof

for exportation were bought up by the foreign merchants, mostly Chinese mestizes; but now they are bought

† Realish Consular Report, 217.

direct from the producers, who thus obtain better prices in consequence of the abolition of the high brokerages. To this and to the energy of the foreign merchants, under favorable circumstances, is the gradual improvement of agriculture principally to be accribed.

Iloilo is the most important of the newly opened roots ports, being the central point of the Bisayan group, and situated in one of the most thickly populated and industrious provinces. Nicholas Loney\* estimates the export of goods woven from the fiber of the piña, from Iloilo. and the neighboring provinces, at about one million dollars annually. The harbor is excellent, being completely protected by an island which lies immediately before it; and at high tide there is about twelve feet of water close in shore for vessels to lie in. On account of the bar, however, ships of a deeper draught than this are obliged to complete their loading outside. Previous to the opening of the new harbors, all the provinces were compelled as well to bring their products intended for exportation to Manila, as to receive from the same place their foreign imports; the cost of which therefore was greatly increased through the extra expenses incurred by the double voyage, reloading, brokerage, and wharfage charges. According to a written account by N. Loney, it is shown how profitable, even after a few years, the opening of Iloilo has been to the provinces immediately adjoining -the islands of Panay and Negros.

The higher prices which can be obtained for directly superspected sugar, combined with the feelility and serior price of the contract of the feeling and serior of the contract of the trade as contracted with the late monopoly enjoyed by Manillo, howe occasionate of great extension of the cultivation of that article. Not only in Italia, but also in Antique and Negros, many new plantations have

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arisen, and the old ones have been enlarged as much as possible; and not less important has been the progress in the manufacture. In 1857 there was not one iron mill to be found on the island; so that, in working with the wooden mill about thirty per cent of the san remained in the case, even after it had thrice passed through, The old wooden presses, which were worked by steam or carabaos, have now been supplanted by new ones: and these the native planters have no difficulty in obtaining, as they can get them on credit from the warehouses of the English importers. Instead of the old Chinese cast-iron pans which were in use, far superior articles have been imported from Europe; and many large factories worked by steam-power and with all modern improvements have been established. In agriculture, likewise, creditable progress is noticeable, Improved ploughs, carts, and farming implements generally, are to be had in plenty. These changes naturally show how important it was to establish at different points extending over two hundred police of the Archipelago, commercial centers, where it was desirable that foreigners should settle. Without these latter, and the facilities afforded to credit which thereby ensued, the sudden rise and prosperity of Iloilo would not have been possible, insertuel as the mercantile bouses in that capital would have been debarred from trading with unknown planters in distant provinces, otherwise than for ready money. A large number of half-castes, too, who before traded in manufactured goods purchased in Manifa. were enabled after this to send their goods direct to the provinces, to the foreign firms settled there; and as, ultimately, neither these latter nor the Chinese retail dealers could successfully compete with them, the

result has been that, as much to their own profit as to that of the country, they have betaken themselves to the cultivation of sugar. In this manner important plantations have been established in Negros, which are managed by natives of liolio: but there is a scarcity of laborers on the island.

Foreignern now can legally acquire property, and tartiforms possess a marketable titler in which respect the law, until a very recent period, was of an extremely uncertain sature. Lend is to be obtained by purchase, or, when sature. Lend is to be obtained by purchase, or, when sature. Lend is to be obtained by purchase, or, when sature. Lend is to be obtained by purchase, or, when sature. Lend is one of the control of the

Many mestizes and natives, not having the necessary loss of state of the capital to carry on a large plantation successfully. So loss estimated by the first of t

The went of good roads is particularly felt: but, with Loss grasses of agriculture, this defect will naturally be renecified; and, moreover, most of the sugar factories are situated on rivers which are unnavigable even by find freight bests. The value of land in many parts of the country has doubled within the last ten years. "

Up to 1834 the picul of sugar was worth in Tolio over those the property of the country has doubled within the last ten years."

from \$1.05 to \$1.25 and seldom over \$2.00 in Manila;

\* to Jare the imperator increased therefold in its press and eath which
may work \$15 to \$1.05, feetled \$55.05 in \$185. Picts of the date on the \$7.05 in \$185.

\* The press of the press of the \$1.05 to \$2.00, and seen as high as \$800. (Dozie, Feb.

\* The press of the press of the \$1.05 to \$2.00, and seen as high as \$800. (Dozie, Feb.

\* The press of the press of the \$1.05 to \$2.00, and seen as high as \$800. (Dozie, Feb.

\* The press of the pr

in 1866, \$3.25; and in 1868, \$4.75 to \$5.00 in Iloilo.

The business in Iloilo therefore shows an increase of

\$1.75 per picul.\* At the end of 1866 there were as many as twenty Europeans established on the island of Negros as sugar planters, besides a number of mestizos. Some of them were working with steam machinery and vacuum pans. The general rate of pay is from \$2.05 to \$3.00 per month. On some plantations the principle of assa, i. r. part share. is in operation. The owner lets out a piece of ground, providing draught cattle and all necessary ploughing implements, to a native, who works it, and supplies the mill with the cut cane, receiving as payment a share. generally a third, of the product. In Negros the violet cane is cultivated, and in Manila the white (Otaheiti). The land does not require manuring. On new ground, or what we may term virgin soil, the case often grows to a height of thirteen feet. A vast improvement is to he observed in the mode of dress of the people. Piña and silk stuffs are beaming quite common. Advance in luxury is always a favorable sign; according to the

The future says of.

Necros.

tion.

As I have already mentioned, California, Japan,
China, and Australia appear designed by nature to be
the principal consumers of the products of the Philippine
Islands. Certainly at present England is the best
customer; but nearly half the account is for super, in
consequence of their own custom duties. Sometimes
it happens that not move than one-fourth of the sugar
crop is sufficiently refined to compete in the Australian and
Californian markets with the sorts from Bengal, Java.

increase of requirements, industry flourishes in propor-

error removes a constitution

<sup>\*</sup> In 1855 Holis took altogether from Negros 3,000 piculs out of 11,200; in 1866 an reach in 99,000 piculs; in 1865, 176,000 piculs; in teenty-seven foreign alphy; in 1865, 219,000 piculs; in 1871, 312,319 piculs from both informat.

and the Mauritius; the remaining three-fourths, if particularly white, must perforce undertake the long voyage to England, despite the high freight and certain loss on the voyage of from ten to welve per cent, through the leakage of the molasses. The interior quality of the Philippine sugar is at once perceived by the English refacers, and is only taxed at 8s, per cent, while purer refacers, and is only taxed at 8s, per cent, while purer

roots pay 10s. To 12s.

In this manuser the Rogilin customs favor the inferies Animals, equilities of manufactured sugar. The colonial Govern-\*\*ment did not allow those engaged in the manufactured sugar to distil rum from the molasses until the year 18s2. They had, therefore, little indicacement to extract, at an errain expense, a substance the value on which they were not permitted to realize, but under ordinary

at a certain expense, a substance the value on which they were not permitted to realize; but under ordinary circumstances the distillation of the rum not only covered the coat of refining, but gave, in addition, a fair margin of profit.

## XXIV

ONE of the most interesting productions of the island Harrisdam, is Manila hemp. The French, who, however, hardly use it, call it "Silk-Plant," because of its silky appearance.

The natives call the fiber bandala, and in commerce (generally speaking) abaci, just as the plant from which it is obtained.

The latter is a wild species of banana growing in the \*\*atox.\*\*
Philippine Islands, known also as Arbol de Cañamo (hemp-tree). \*\*Musar textilis, Lim. It does not differ in \*\*This space insteads for the Ratio's species could be Mrish, is the years 1858 of the \*\*This space in the \*\*Atom to the species in Latton short City or 1858 of the State of the \*\*Atom to the space in the \*\*Atom to the space in the \*\*Atom to the space in the \*\*Atom to the \*\*Atom to the space in the \*\*Atom to the \*\*Atom to the space in the \*\*Atom to the space in the \*\*Atom to th

Undstermined plant relations.

(Muse paredisiaca), one of the most important plants of the terrid zone, and familiar to us as being one of our most brautiful hot-house favorites. Whether this and the "muse" (M. troplosystamm, M.

whether thus and the 'muser of 'polymolous day and and other), frequency is a consistent of the second of the seco

The southern Camarines and Albay are favorably edanted for the cultivation of this plant, as are also the islands of Samar and Leyte, and the adjacent islands; and Cebu likewise, although a portion of the so-called "Cebu hemp" comes from Mindanao. In Negros the bast-banana thrives only in the south, not in the north; and Iloilo, which produces most of the hemp cloth (ourney), is oblined to import the raw material from the eastern district, as it does not flourish in the island of Panay. In Capiz, it is true, some abacá may be noticed growing, but it is of trifling value. Hitherto all attempts, strenuous though the efforts were, to acclimatize the growth of bemp in the western and northern provinces have failed. The plants rarely grow as high as two feet, and the trouble and expense are simply unremmerative. This failure may be accounted for by the extreme dryness prevailing during many months of the year, whereas in the eastern provinces plentiful showers fall the whole year round.

The great profit which the Manila hemp has yielded Possible to the in the few years since its production, however, has given encouragement to still further experiments: so that, indeed, it will shortly be shown whether the cultivation of abacá is to be confined to its present limited area. while the edible species of banana has spread itself over the whole surface of the earth within the tropics. On the volcanic mountains of Western Java a species of the Musacen grows in great luxuriance. The Government has not, however, made any real effort to cultivate it, and what has been done in that respect has been effected, up to the present date, by private enterprise, Various writers have stated that abacá is to be obtained in the north of the Celebes. Bickmore, however, says positively that the inhabitants having made great efforts in attempting its successful cultivation, have abandoned it again in favor of the cultivation of coffee. which is found to be for more profitable \* According to previous statements, Guadaloupe appears to be able to produce abaca (fiber of the M. Jestifis?) t and Pondicherry and Guadaloupe have produced fabrics woven

of the edible banana; I all these, however, are only Royle affirms that the Manila hemp (abacá fiber) Suprivity s excels the Russian in firmness, lightness, and strength in tension, as well as in cheapness, and has only the one disadvantage that ropes made from it become stiff in wet weather. The reason, however, is found in the manner in which it is spun, and may be avoided by

from abaca, and French Guiana stuffs from the fiber

experiments

\* The Islands of the Eng Indian Archipolage, 1858, p. 340. † Rabibition Catelogue: section, Presch Colonies, 1867, p. 80. 1 Report of the Commissions, Rabilities 1867, iv. 102. The South Amer-cian Indians have for a long time goant employed the baseaus fiber in the sensi-tium of the Commission 556 THE PORMER PHILIPPINES THRU FOREIGN EYES

proper preparation. \* Through the better preparation of the raw material in Manila by means of adequate machinery, these difficulties have been overcome; but abode as longer has the advantage of unprier classpanes as the domast does not he advantage of unprier classpanes. During materials 1850 it was worth from £2 to £2.5 During in 1868, £85 per ton; while Russian hemp fertided £13 per ton. Thus in nine years it rose to double its value.

As they there are about twelve varieties of the best

In Albay there are about twelve varieties of the best banasa cultivated, which are particularly favored by the qualities of the soil. The cultivation is extremely simple, and entirely independent of the season. The plants thrive best on the slopes of the volcanic monutains of the woods protected by the trees, which cast their shudows to an extent of about sixty feet. In exposed level ground they do not thirty so well, and in marshy

level ground they do not thrive so well, and in marshy land not at all. In the laying out of a new plantation the young shoots are generally made use of, which sprout so abundantly from the roots that each individual one soon becomes a perfect plant. In favorable ground the custom is to allow a distance of about ten feet between each plant; in poor ground six feet. The only care necessary is the extermination of the weeds, and clearing away the undergrowth during the first season: later on, the plants grow so luxuriantly and strongly that they entirely prevent the growth of anything else in their vicinity. The protection afforded by the shade of the trees at this period is no longer required, the young hads finding sufficient protection against the sun's rays under cover of the fan-like leaves. Only in excen-\* About not readily taking for is, consequently, only used for running, and not

## Lauret - Present of the PERCENTER

tional cases, contrary to the usual practice, are the plants raised from seed. The fruit when ready is cut off and dried, though care must be taken that it is not over rine; otherwise the kernels will not germinate These latter are about the size of perpercorns; and the extraction of them in the edible species almost always brings about decay. Two days before sowing the kernels are taken out of the fruit and steened over night in water; on the following day they are dried in a shady place; and on the third day they are sown in holes an inch deep in fresh, unbroken, and well-shaded forest ground, allowing six inches distance between each plant and row. After a year the seedlings, which are then about two feet high, are planted out, and tended in the same way as the suckers. While many of the edible benanas bear fruit after one year, and a few

varieties even after six months, the abaca plant requires Diffrence will on an average three years to produce its fiber in a proper condition: when raised from suckers four years; and raised from year-old seedlings, even under the most favorable conditions, two years, On the first crop, only one stalk is cut from each curso. bush; but later on the new branches grow so quickly that they can be out every two months.\* After a few

years the plants become so strong and dense that it is scarcely possible to push through them. Best is in its best condition at the time of blossoming; but, when the price of the fiber happens to stand high in the market,

this particular time is not always waited for Plants which have blossomed cease to be profitable Projection

in any way, by reason of the fiber becoming too weaka matter of too great nicety for the unpractical consummers on the other side of the Atlantic to decide \* A plant in full growth perduces covarily 36 :ext, handain to the occe, whereas from an acre of flar not more than from 2 to 4 ext, of pure flax, and from 2 to 8 ext, end on be charined.

upon, and one in which, despite inquiries and careful inspections, they might be deceived. There really is no perceptible reason why the fiber should become weaker through fructification, which simply consists in the fact of the contents of the vascular cells changing into soluble matter, and gradually opzing away, the consequence of which is that the cells of the fiber are not replenished. These, on the contrary, acquire additional strength with the age of the plant, because the emptied cells cling so firmly together, by means of a certain resinous deposit, that it is impossible to obtain them unbroken without a great deal of trouble. The idea may have erroneously arisen from the circumstance that, previously to drying, as with hemp, the old plants were picked out, and allowed to be thrown away, though not without considerably increasing the rate of pay, which already consumed the greater part of the general

expenses.\* In order to obtain the bast, the stalk above ground is closely pruned and freed from leaves and other encumbrances; each leaf is then singly divided into strips-a cross incision being made through the membrane on the inner or concave side, and connected by means of the pulpy parts (the parenchym) clinging together. In this manner as much as possible of the clear outer skin only remains behind. Another method is to strip the bast from the undivided stem. To effect this the operator makes an oblique incision in the skin of the under part of the stalk, drawing the knife gradually to the tip, and stripping off the whole length as broad a piece as possible; and the operation is repeated as many times as practicable. This method of handling

As Dr. Wittmark communicated to me, only fibur or seed can be obtained from home, as when the hump is rise, i.e., tun to seed, the fibur becomes than both bettels and coarse. When collimating that very effects both seeds and fibur are used, but then they both are of inferior quality.

is more productive than the one previously described: but on the other hand, it takes considerably more time, and for that reason is not often practised. The string of host are then drawn under a built the blade of which is three inches broad by six long, fastened at one end to the extremity of a flexible stick so that it is suspended perpendicularly over a well-smoothed block, and at the other end to a handle connected by means of a cord to a treadle, which can be pressed firmly down as accasion requires. The workman draws the hast, without any regard to quality, between the knife and block, commencing in the middle, and then from side to side. The knife must be free from notches, or all indentations, according to the direction of Rother Blanco \* Three hired-men usually get twenty-five pounds per latered west

day. One worker cuts up the stalks, strips off the ordward leaves, and attends to the supply; the second, frequently abov, anreads out the string; and the third draws them under the knife. A single plant has been known to yield as much as two nounds of fiber: but the most favorable average rarely affords more than one pound, and plants grown in indifferent soil scarcely a sixth of that quantity. The plantations are worked either by the owner or by day-laborers, who, when the market prices are very low, take half share of the crop harvested by them. In these cases an industrious workman may obtain as much as one nicul in a week. During my stay exceptionally low prices ruled-sixteen and onehalf reals per picul undelivered. The workman could, therefore, in six days earn half the amount, viz., eight and a quarter reals at a rate of one and three-eighths

<sup>·</sup> Fiere de Pilipinos.

reals per day. The day's pay at that time was half a real, and board a quarter of a real, making together three-quarters of a real The sarefermen therefore corned stalls: Proft. Wages amounted to per picts 12. 6 r.
Profit of the planers ofter defortion of the mans 1. 0 r. I water and The edges of the petioles, which contain much finer fiber than the middle parts, are separately divided into strips an inch wide, and with strong pressure are drawn several times under the knife. This substance, which is called lupis, is in high request, being employed in the native weaving: while bundala is chiefly used for chine rigging.\* Lunis, according to the fineness of the fiber, is sorted into four classes-first, Himmi; second, Totomu; third. Sonoton: and fourth, Cadadan. A bundle of these is then taken up in the left hand, and, while with the right the first three sorts are inserted between the fingers, the fourth is held between the thumb and forefinger. This

THE FORMER PHILIPPINES THRU POWERCE EVES

last description is no longer used in fine waveling, and is therefore sold with hostime. After the fine sorts have been pounded in a rice-mentar, in order to render the period of the sold of the sol

second as warp, and the third as warp with the second as word. The fairtees to woven are nearly as fine as pink (which is the property of the

these last three qualities-purity, flexibility, and colorthey stand in relation to cambric somewhat as cardboard to tissue-paper.

Weaving such fabrics on very simple looms is exceed. Weaving ingly troublesome as the fibers, which are not soun but twisted, very frequently break. The finest stuffs require so great an amount of dexterity, patience, and time in their preparation, and for that reason are so expensive. that they would find no purchasers in Europe where there is the competition of cheap, machine-made goods. Their fine, warm yellowish color also is objected to by the European women, who are accustomed to linen and calicoes strongly blued in the washing. In the country, however, high prices are paid for them by the rich mestizos, who understand the real goodness of their on olition

The fibers of the inner petioles, which are softer but seedale not so strong as the outer, are called Inpus, and sold Islain. with bandula, or mixed with lands and used in the native weaving. Bandala also serves for weaving purposes; and, in that portion of the Archipelago where the native abacá plantations are, the entire dress of both sexes is made of coarse an ingres. Still coarses and stronger fabrica are prepared for the European market, such as cripoline and stiff mustin used by dressmakers

Before the arrival of the Spaniards the natives were a pre-special stuffs from abacá: which became an important article great. of export only some few decades since. This is in great measure due to the enterprising spirit of two American firms, and would not have been attained without great

perseverance and liberal pecuniary assistance. \* Inflexibility is peculiar to all fibers of the Monocotyleions, bremse, they con-

<sup>&</sup>quot;Inflatibility is peculiar to all fibers of the appropriations, premise to converty rounded cells. On the other hand, the true best fibers—the Dicocyledens Ulas, for instructy—are the reverse.

Unbesinesdike

The plants flourish without any care or attention, the only trouble being to collect the fiber; and, the bounteousness of Nature having provided them against want, the natives shirk even this trouble when the market price is not very enticing. In general low prices are scarcely to be reckoned on, because of the utter indifference of the laborers, over whom the traders do not necessars enough influence to keep them at work. Advances to them are made both in goods and money, which the creditor must repay either by produce from his own plantation or by giving an equivalent in labor.\* As long as the produce stands high in price, everything goes on pretty smoothly, although even then, through the dishonesty of the workers and the laziness, extravagance. and mercantile incapacity of the middlemen, considerable lose frequently ensues. If however, prices experience any considerable fall, then the laborers seek in any and every way to get out of their uncomfortable position, whilst the percentage of profit secured to the middleman is barely sufficient to cover the interest on his outlay. Nevertheless they must still continue the supplies, inasmuch as they possess no other means of securing payment of their debt in the future. The laborers, in their turn, being bittue complaints against the agents, to the effect that they are forced to severe labor, unprofitable to themselves, through their accordance of advances made to them at most exorbitant rates; and the agents (generally mestizes or creoles) blame the crafty, greedy,

any mestaton or crocies) blame the crisity, greeny,

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erolly promised.

extortionate foreigners, who shamelessly terms the looks of the soil with false promises, and bring about their utter ruin. As a general rule, the "crafty foreigner" (herete) experiences a considerable diminution of his capital. To some just so that one of the most important firms suffered the loss of a very large sum. At length, however, the Americans, who had capital invested in this trade. succeeded in putting an end to the custom of advances. which hitherto had prevailed, erected stores and presses

on their own account, and bought through their agents direct from the growers. All earlier efforts tending in this direction had been effectually thwarted by the Spaniards and creoles, who considered the profits derived from the country, and especially the inland retail trade, to be their own by prescriptive right. They are particularly jealous of the foreign intruders, who enrich

themselves at their expense; consequently they place every obstacle in their way. If it depended upon the will of these people, all foreigners would be elected from the country-the Chinese alone, as workmen (coolies), being allowed to remain.\* The same feeling was exhibited by the natives towards

the Chinese, whom they hated for being industrious and trustworthy workers. All attempts to carry out great undertakings by means of Chinese labor were frustrated by the native workmen intimidating them, and driving them away either by open violence or by secret persecu-

tion; and the Colonial authorities were reproached for not affording suitable protection against these and similar outrages. That, as a rule, great undertakings did not succeed in the Philippines, or at least did not yield a profit commensurate with the outlay and trouble, is a fact beyond dispute, and is solely to be ascribed to many of the \* This feeling of justicesy had very nearly the effect of closing the new harbors

204 THE FORMER PHILIPPIXES THRU FOREIGN EVES circumstances related above. There are those, however,

who explain these mishaps in other ways, and insist upon the fact that the native work well enough when they are punctually and sufficiently paid. The Government, at any rate, suppears gradually to have come to the conclusion that the resources of the country cannot be properly opened up without the assistance of the capi->to all and enterprise of the foreigners; and, therefore, of

be properly opened up without the assistance of the capit, t tal and enterprise of the foreigners; and, therefore, of late years it has not in any way interfered with their establishment. In 1869 their right of establishment was tardily conceded to them by law. At this period the prospects of the abaca cultivation

seemed very promising; and since the close of the American war, which had the effect of causing a considerable fall in the value of this article in America, the prices have been steadily increasing. It is stated (on authority) that in 1840, 136,034 niculs of abaca, to the value of \$307.005 were experted the value per nigut being reckoned at about \$2.09. The rate gradually rose and stood between four and five dollars-and, during the civil war, reached the enormous sum of nine dollars per piculthe export of Russian hemp preventing, however, a further rise. This state of affairs occasioned the laying out of many new plantations, the produce of which, when it came on the market, after three years, was valued at \$3.50 per picul, in consequence of the prices having returned to their normal condition; and even then it paid to take up an existing plantation, but not to lay out a new one. This rate continued until 1860, since which time it has gradually risen (only during the American civil war was there any stoppage), and it now stands once more as high as during the civil war; and there is no apparent prospect of a fall so long as the Philippines have no competitors in the trade. In 1866 the picul in Manila never cost less than \$7 which two years previously was the maximum value; and it rose gradually, until \$9.50 was asked for ordinary qualities. The production in many provinces had reached the extreme limit; and a further increase, in the former at least, is impossible. as the work of cultivation occupies the whole of the male population-an evidence surely that a suitable recompense will overcome any natural laziness of the natives \*

An examination of the following table will confirm the accuracy of these views:-

	EXPORT OF	ABACÁ	(In	Picuis).	٠,
T-	Lance Lan		1		

To	1861	1864	1566	1858	1870	1871	"Marries
Orest Britain North America, - Attentic Ports		226,258 249,100	96,039	125,540 294,728	131,160	143,498	Arrays."
Colifernia Europe Australia Biogeore Chiese	6,606 991 76 2,618 5,531	9,426 1,134 5,194 1,932 302	=	14,290 103 21,244 3,646	15,980 244 11,434 1,202 482	22,500 640 6,716 2,092 2,794	
Toyat	273,200	493,352	100,682	403,558	458,570		
	Conner-		Betgian	English	Market	Report.	

The consumption in the country is not contained in Laureton the above schedule, and is difficult to ascertain; but it must certainly be very considerable, as the natives throughout entire provinces are clothed in guinara, the weaving of which for the family requirements generally is done at home.

Sisal, also sisal-hemp, or, as it is sometimes known, sistlymp, Mexican gross, has for some years past been used in the trade in increasing quantities as a substitute for abaca, which it somewhat resembles in appearance, though wanting that fine gloss which the latter possesses. It is somewhat weaker, and costs from £5 to £10 less per ton; it is only used for ships' rigging. The refuse from it

has been found an extremely useful adjunct to the ma-\* Patricel Countries Reto. XIV., 68.

serains confinelly used in the manufacture of paper. The Technologic for July, 1885, call settention to the origin of this substitute, in a detailed easy differing essentially from the representations continued in the "U. S. Agricultural Report" published at Washington in 1870; and the growing inportance of the article, and the ignorance prevailing abroad as to its extraction, may reader a short account of its acceptable. The properties of the substitute of the supplies frames of the basic fiber, but not its greater Sinkshorm, which is named after the export harbor of

Sisal (in the north-western part of the peninsula), is by far the most important product of Yucatan; and this rocky, sun-burnt country seems occuliarly adapted to the growth of the fiber. In Yucatan the fiber is known as jencyuem, as indeed the plant is obtained from it. Of the latter there are seven sorts or varieties for purposes of cultivation; only two, the first and seventh, are also to be found in a wild state. First, Chelem. apparently identical with Agare angustifolia; this ranks first. Second, Yazzi (pronounced Yachki: from war, green, and tri, agave), the second in order; this is used only for fine weaving. Third Socri foronounced Sakki: suck, white), the most important and productive, supplying almost exclusively the fiber for exportation; each plant yields annually twenty-five leaves, weighing twenty-five pounds, from which is obtained one pound of clear fiber. Fourth, Chucumci, similar to No. 3, but coarser. Fifth, Bulei: the fiber very fair, but the leaves rather small, therefore not very productive. Sixth, Citamei (pronounced Kitamki: litam, hog);

peither good nor productive. Seventh, Caius or Caium, probably Foureroug culturais: leaves small, from four to five inches long.

The cultivation of siss has only in recent times been Mediaprosecuted viceorously; and the extraction of the fiber spinning. from the leaves, and the subsequent spinning for shins! rigging are already done by steam-machinery. This

occupation is especially practiced by the Maya Indians. a memorial of the Toltees, who brought it with them upon their emigration from Mexico, where it was in

vogue long before the arrival of the Spaniards. The sisal cultivation yields an annual profit of 95 Page. per cent. A merate, equal to five hundred seventy-six square yards (wras), contains sixty-four plants, giving sixty-four pounds of clear fiber, of the value of \$3.84; which, after deducting \$1.71, the cost of obtaining it. leaves \$2.13 remaining. The baryesting commences from four to five years after the first laying out of the plantation, and continues annually for about fifty or sixty years.

In tropical countries there is scarcely a hut to be seen access without banana trees surrounding it; and the idea presented itself to many to utilize the fiber of these plants, at that time entirely neglected, which might be done by the mere labor of obtaining it; besides which, the little labor required for their proper cultivation is quickly

and amply repaid by their abundant fruitfulness.\* • The barnato trees are well-known to be among the most valuable of pirots to members. In their samps state they suffered season their; and when season, they supply an agreemble and neithinses from, which, although portions of freely, still produce raditor unpheasantons me may imjurious after-effects. One of the best the milks were in the milks were in the milks were in the milks were in the milks after being factors. of the clinic species being first in early as tive or as mannes fifter being resolute, suchers in the merculiar eventsety speciating from the posts, so that confirmal finite-bearing is going on, the bine of the growen arrely being confead to bin eccesses of cutting down of the off plants and to gathering in the first. The break levers affect to other young plants the short being in our particle in projection. broad known a minori to other young parans the short which as so required more almost constrint, and one complete, and one complete is many until ways short the house. Meny a last too, here to thank the house here specially give the state of the configuration which, constraintly specialize, here has the visit as mater. I should here they so make an abservation upon a minimize which has spread rather utilety. In Bohupp Pellogatic weather which, the minimized has been supported by the configuration of the configuration of the state of the configuration of the configuration of the state of the configuration of the co t's excellent work, Reservation du Regissie Thai en Reign, 1, 1966, per L'orrier a recuis qui ed ton espece de hanasier, el que les Rispons appellent STATE OF THE THE STATE OF THE S

This idea, however, under the existing circumstances, would certainly not be advantageous in the Philippines. as it does not pay to obtain bast from the genuine abaca plant as soon as it has borne fruit. The fiber of the edible banana might very well be used as material for papermaking, though obtaining it would cost more than the genuine bandala.

Piter-rateration

In the Report of the Council of the Society of Arts. London, May 11, 1860, attention was called to a machine invented by F. Burke, of Montserrat, for obtaining fiber from banana and other endogenous plants. While all the earlier machines worked the fiber parallelwise. this one operated obliquely on it: the consequence of which was that it was turned out particularly clear. With this machine, from seven to nine per cent, of fibrous substance may be obtained from the banana. The Tropical Fiber Company have sent these machines to Demerars, also to Java and other places, with the design of spinning the fiber of the edible banana, and also to utilizesome portions of the plant as materials in the manufacture of paper. Proofs have already been brought forward of fiber obtained in this manner in Java, the value of which to the spinner has been reckoned at from £20 to £25. It does not appear, however, that these promising experiments have led to any important results; at least, the consular reports which have come to hand contain no information on the subject. In the obtaining of bandala in the Philippines this machine has not yet been used; nor has it even been seen, though the English consul, in his latest report, complains that all the hitherto ingeniously constructed machines have proved virtually useless.

The bast of the edible banana continues still to be used in the Philippines, notwithstanding that the plants, instead of being grown, as in many parts of America, in large well-tended gardens, are here scattered around the huts; but the forwarding of the raw material, the local transport, and the high freightage will always render this material too expensive for the European

suited for "bill paper."

market (considering always its very ordinary quality)-£10 per ton at the very least: while "Sparto grass" (Lucacum spartum, Losffi.), which was imported some

few years since in considerable quantities for the purpose Pase-making

of paper-making, costs in London only £5 per ton. sestorite. The jute (Carchurus casularis) coffee-sacks supply another cheap paper material. These serve in the fabrication of strong brown packing paper, as the fiber will not stand bleaching. According to P. Symmonds, the United States in recent years have largely used bamboo. The rind of the Adansonia disitata also vields an extremely good material; in particular, paper

made entirely from New Zepland flax deserves consideration, being, by virtue of its superior toughness, eminently

It must not be overlooked that, in the manufacture Profession of shippanent stellof paper, worn linen and cotton rags are the very best materials that can be employed, and make the best paper. Moreover, they are generally to be had for

the trouble of collecting them, after they have once covered the cost of their production in the form of clothing materials; when, through being frayed by repeated washings, they undergo a preparation which particularly adapts them to the purpose of paper-making. The more paper-making progresses, the more are Investoranligneous fibers brought forward, particularly wood and of mond and atoms.

straw, which produce really good pastes; all the raw In 1862, English took from Spoin 156 tens: 1863, 18,876 tens; 1866, 66,923 tom; 1868, 95,000 june; and the import of row fell from \$1.000 ton; is 1866 to 17.000 tons in 1668. In Alajora a long quantity of sports (Alfa) grows but the tout of transport is too expensive to edetit of sending it to France.

materials being imported from a distance. That England takes so much sparto is easily explained by the fact that she has very little straw of her own, for most of the grain consumed by her is received from abroad in a granulated condition.

## xxv

Or all the productions of the country tobacco is the most important, so far (at least) as concerns the Government. which have the cultivation of this plant, its manipulation, and sale, the subjects of an extensive and strictly guarded monopoly, and derives a very considerable portion of the public revenue therefrom.\* As to the objections raised against this revenue on the score of its being opposed to justice and morality, many other sources of revenue in the colonial budget might be condemned (such as the poll-tax, gaming and opium licenses, the brandy trade, and the sale of indulgences); yet none is so invidious and pernicious as the tobacco monopoly. Often in the course of this narrative of my travels

Automation of the samarala.

I have had occasion to commend the elemency of the Spanish Government. In glaring contrast therewith, however, stands the management of the tobacco regulations. They appropriated the fields of the peasantry without the slightest indemnification-fields which had been brought under cultivation for their necessary means of sustenance: forced them, under penalty of bodily punishment, to raise, on the confiscated property, an article which required an immense amount of trouble and attention, and which yielded a very uncertain crop; and they then valued the harvested leaves arbitrarily \* The British Count columns to receipt from this monopoly for the year 1855? at 58,419,739, other an expanditure of 56,419,846; thus leaving a char-profit of 53,899,073. In the colonial bangar for 1807 the profit on tobarcs was estimated at \$2,627,770, while the total expenditure of the colony, stem defined. eministry at \$2,027,070, while the total expenditure of the outery, after decisions of the expension of the

.576. coording to the efficial tables of the chief of the Administration in Morsis. According to the efficial tables of the chief of the Administration in Moress, 1871, the total annual reverse derived from the totales of management hyteres early, are well straight reverse agrees from the telepoor management Arthurstee years 1855 and 1855 an

and without any appeal, and, in the most favorable case, paid for them at a nonlinal price fixed by themselves. To be paid at all, indeed, appears to have been a favor, for it has not been done in full now for several years in necession. Spain regularly remains indicated to the united by peasant in the amount of the name of the necessary of the

formers who, after pointing out fields already owned, but which were considered suitable to the cultivation of tobacco, were installed into possession of the proclaimed lands in the place of the original owners. For proofs of these accustations, one need only peruse

a few paragraphs contained in the following stringent regulations, entitled "General Instructions," and, further, a few extracts from the official dispatches of Intendant-General Agius to the Colonial Minister;—!

Cap. 25, § 329. The compulsory system of cultiva- attent of tion in Cagayan, New Vizcaya, Gapan, Igorots, and making-Abra to remain in force. § 331. The Director-General of the Government is authorized to extend compulsory labor to the other

as authorized to extend compulsory labor to the other provinces, or to abolish it where already introduced. These instructions may be altered wholly or in part as occasion requires.

§ 332. Prices may be either incressed or lowered. § 337. Claims or actions concerning the possession

of tobacco lands pending before the usual tribunal shall not prevent such lands from being used for the purposes of tobacco cultivation, the present proprietor being under strict obligation to continue the cultivation either in person or by substitute. (If he omits to do so, the magistrate or judge takes upon himself to appoint such substitute.)

\* Internecies general pera is Directica, Administracion, y Intervencion de las Renias Batancadas, 1860.

Renias Batancadas, 1860.

Renias Batancadas, 1860.

Renias Batancadas, 1860.

Renias Batancadas (Manta), 1871.

to the owner, but he is compelled to relinquish all rights and penfruct for three years

Cap. 27, § 357. An important duty of the collector

is to insure the greatest possible extension of the tobacco cultivation upon all suitable lands, but in particular upon those which are specially convenient and fertile. Lands which, although suitable for tobacco growing, were previously planted with rice or corn, shall, as far as practicable, be replaced by forest clearings, in order, as far as possible, to prevent famine and to bring the interests of the natives into harmony with those of the authorities

§ 361. In order that the work which the tobacco cultivation requires may not be neglected by the natives, and that they may perform the field work necessary for their sustenance, it is ordered that every two persons working together shall, between them cultivate eight thousand square varas, that is, two and one-half acres of tobacco land.

, \$ 362. Should this arrangement fail to be carried out either through age, sickness, or death, it shall be left to the priest of the district to determine what quantity of work can be accomplished by the little children, having regard to their strength and number. \$ 369. Every collector who consigns from his distriet 1,000 fundes more than in former years, shall receive for the overplus a double gratuity, but this only where the proportion of first-class leaves has not

decreased § 370. The same gratuity will be bestowed when there is no diminution in bulk, rad one-third of the leaves is of first-class quality

The following sections regulate the action of the

local authorities:—
§ 379. Every governor must present annually a list, revised by the priest of the district, of all the inhabitants in his district of both sexes, and of those of their children who are old enough to helm in the fields.

§ 430. The officers shall forward the emigrants on to Cagayan and Nueva Viscaya, and will be entrusted with \$5 for that purpose, which must be repaid by each individual, as they cannot be allowed to remain indebted in their province.

individual, as they cannot be allowed to remain indepted in their province.

§ 435. Further it is ordered by the Buen Gobierno (good government) that no Filipino shall be liable for a sum exceeding S5. incurred either as a loan or a simple.

debt. Thus the claim of a higher sum can not impede emigration. § 437. The Hacienda (Public Treasury) shall pay the passage money and the cost of maintenance from

liocos.

§ 438. They are to be provided with the means of procuring cattle, tools, etc., until the first harvest

(although the Indian is only liable for \$5). § 439. Such advances are, it is true, personal and individual; but, in the case of death or flight of discount of the whole village is to be liable for the amount of the control of the c

Tobacco (Nicotiana tabucum, L.) was introduced into Michigan the Philippines soon after the arrival of the Spaniards Witching of the Michigan of the Michigan

The tolered in Clinia appears to have easy form the Philippiars. "The temperate discovered in Winnians form in results death that it was fire in-restricted interested in the state of the

From Scalings, in Harrieria, it was bounds by the Persparery into Irgan associatory between the years 150 and 150; and private interfer angled to Claim and the Company of the Company o being speedily discovered by the natives, naturally assisted in its rapid adoption. Next to the Cuban tobacco and a few sorts of Turkish\* it is admitted to

he the best; and in the colony it is asserted by competent judges that it would soon surpass all others, if the existing regulations were abolished and free trade established. There can be no doubt in the minds of impartial observers that the quality and quantity of the produce might be considerably incressed by such a change; on the other hand, many of the prejudiced officials certainly maintain the direct contrary. The real question is to what extent these expectations may be realized in the fulfilment of such a measure: of course, bearing in mind that the judgment is swayed by a strong desire for the abolition of a system which interferes at present with their prospects of gain. But the fact is that, even now the native grown tobacco, notwithstanding all the defects inseparable from an illicit trade, is equal

History agents of Philipping

Eastern Asia. Indeed rich merchants, to whom a difference of price is no object, as a rule take the Manila cigars before Hayanas. Manife Islams According to Agius ("Memoria," 1871), in the European market the Manila tobacco was admitted to be without any rival, with the sole exception of the Vivilla alain of Cuba; and most certainly in the Asiatic and Oceanic ports its superior quality was undisputed,

West Cales produces the hest telescope, the formers Vesitio along, 460-450 cert, an form \$14.728 to \$79.70 to extra placed sents being valent of such parts of the product of the product

to that produced by the Government officials in their

own factories, and is valued at the same rate with many of the Havana brands; and the Government cigars of the Philippines are preferred to all others throughout as the Marsuna tobacco loses its flavor on the long voyage to these countries; but now, from year to year, it is surely losing its reputation. If, then, the Manila signes have not hitheren succeeded in analoing themselves secreptable in Europe on second to the system of combine in artitles of the second to the system of combine to the strength of the strength in the strength is the strength of the system of combined to the system of combined to the strength of the strength is consequence of free competition. The fame of the Manila cipres of the strength of the strengt

of free trade is shown under other dreumstances by the cample of Cuba. At the time white the ment were more than the memory-coulded the cover the home consumptions of the cover the home consumptions of the present time. Cuba supplies all the markets of the world "The decision of Capstain-General De in Gandara upon this question is in the highest degree world of mote and a first interest of the coloral Minister, March, 1888 to the consumption of the colorad Minister, March, 1888 to the colorad Capstain of the colorad Minister, March, 1888 to the colorad Capstain of the colorad Minister, March, 1888 to those continuous in the colorad Capstain of the Capstain of th

In Cohn the telescon infinitry is enfectly fee. The extraordinary increase
of the trude rest the improved quality of the observe one, in girth reference, in
order resteed to insect congression entering factors of feeting, who receive
no other resteed tion from the Covernment than a tree grade of their operation,

- (Fay K-year, 1857, w. 375.)

the quality of the produce, the tobacco provinces rank

in the following order: First, Cagayan and Isabela; Second, Igores; Third, Island of Mindanao; Fourth, Bisayas; Fifth, Nueva Ecija. From the Government Order, dated November 20,

nenepola Company From the Government, Ooler, dated November 30, or of the control of the control

Boson's fuscation seto mendo).

Before the administration of this very jealous Governor, for a period of two hundred years the colony received annual contributions from New Spain (Sizuada Guerra Lander).

Exchange, from this charge Bases interest the guntals Exchange, from this charge Bases interest the guntals Exchange, from this charge Bases interest the guntaria resources of a State supply its immediate wants) as plan upon which, fifty years later, Jean modelled its conditions for this system were less intervable. In addition of this system were less intervable. In addition to the very slight submissiveness of the population, but were the proposed of Bases, the single cutivation is the only one that the only one that the only one that the only one that

...

remains in the hands of private individuals, the tobacco trade still being a Government monopoly.\* Rasno first of all confined the monopoly to the provinces immediately contiguous to the capital, in all of which the cultivation of tobacco was forbidden under penalty of severe nunishment, except by persons duly authorized and in the service of the Government.) In the other provinces the cultivation was to a certain extent permitted: but the supply remaining after deduction of what was consumed in each province was to be sold to the Government only.

In the Bisayas the magistrates nurchased the tobacco avestsion for the Government and paid for it at the rate previously will rable fixed by the Government factories at Manilar and they were allowed to employ the surplus money of the Government treasury chest for this purpose. A (worse system than this could scarcely be devised. Officials, thinking only of their own private advantage, suffered no competition in their provinces, employed their official power to oppress the producer to the utmost extent, and thereby naturally checked the production; and the Government treasury chest consequently suffered frequent losses through bankruptcies, inasmuch as the magistrates, who drew a salary of \$600 and paid a license of from \$100 to \$360 for the right of trading, in order to make money quickly, engaged in the most hazardous speculations. In 1814 this stupid arrangement was first out an end to: and forthwith the tobacco supplies from the Bisayas increased, through the competition of the

A CONTRACTOR OF THE PROPERTY O

Hence also introduced the cultivation of allk, and had 4,500,000 multivative trees planted in the Committee. This industry, intendently upon his retirances. and distance to full into elective

was assumed to 201 into occty.

According to La Pérouse, this messeue occasioned a recelt is all poets of the
classic, which had to be supreased by force of srms. In the same assumer the
successely introduced into Assume the acceptance of the supreased by the continuence of the Assume that the continuence of the Assume that the continuence of the Assume that the continuence of the Assume the State of the Continuence of the Cont

private dealers, who then, for the first time, had the power of purchase; and from 1839 the planters were empowered to obtain higher prices than those afforded by the greedy monopolizing magistrates. At present, the following general regulations are in force, subject, however, to continual variation in details.

ugus tring

(By a Departmental Order, September 5, 1865, the cultivation of behaviour was permitted in all the provisions, cultivation of behaviour was permitted in all the provisions, though the produce was allowed to be sold only to be Overmment at the piece regulated by them. After wholestia, purchases have made in Lauren and the adjacent slands in [Jonese]. "O'collection," I will be in direct through the finance officials, who have the management of the plants from the sowing but in the Bisyen by promping that it, the Government officials buy up the tobacco-endered by the grower or secondarion by the care.

In the Bisayas and in Mindanao everybody is allowed

to manufacture cigars for his own particular use, though trade therein is strictly prohibited; and advances to the

Different manages to Biotyper mad Ministrano,

tobacco growers are also made there; while in Luson and the neighboring islands the Ooverment provides seed and seedling plants. Here, however, no land which is adapted to the cultivation of tobacco is allowed to be used for any other purpose of agriculture.

As the Financial Administration is unable to cleasify the tobacco at its true value, as night be done were ree competition permitted, they have adonted the ex-

profing.

As the Financial Administration is unable to classify the tobacco at its true value, as might be done were free competition permitted, they have adopted the expedient of determining the price by the size of the leaves; the care necessary to be bestowed upon the training of the plants in order to produce leaves of the required size being at least a guarantee of a certain amount of

proper attention and handling, even if it be productive of no other direct good."

At is well known at Madrid how the tobacco monopoly. by concessing the wretched population, interferes comedwith the prosperity of the colony; yet, to the present day, the Government measures have been so arranged as to

exact a still larger gain from this very impolitic source of revenue. \* Regulations for the tobacco collection agencies in Luzen, -- Inf. Page classes

<sup>3</sup> Regulations for the tobacon collection agencies in Leaden—the Para clauses of Tuberco with the surchised. And Three clears are thus specified the first Cabbon with the surchised. And Three clears are thus specified the first I and I is incises (3m 232); the third of leaves between 16 and 16 incises (3m 232); the third of leaves between 16 and 16 incises (1m 16 cabb). The leaves is leaves 1 incises in clause 1 incises incises 1 incises in control of 10m (43). Similar leaves you'll not be a surface to the control of 10m (43). The leaves is control to the control of 10m (43). The leaves is control to the control of 10m (43). The leaves with the control of 10m (43). The leaves with the leaves with the leaves of 10m (43). The leaves in the leaves with the leaves of 10m (43). The leaves in the leaves of 10m (43) in the leaves of 10m (43) in the leaves of 10m (43). The leaves in the leaves of 10m (43) in the leaves of 10m (43) in the leaves of 10m (43). The leaves of 10m (43) in the leaves of 10m (43) in the leaves of 10m (43) in the leaves of 10m (43). The leaves of 10m (43) in the leaves of 10m (43) in the leaves of 10m (43) in the leaves of 10m (43). The leaves of 10m (43) in the leaves of 10 A finds, let class, usigle 40 Res, and in 1867 the Government rate of nav

was on follows: --

| Farrie, Jei, chan, 60 Be. |
| Farrie, 2rd dron, 60 Be. |
| Farrie, 2rd dron, 61 Be. |
| Farrie, 3rd chan, 31 Be. |
| Farrie, 4th chan, 18 Be. |
| Farrie, 4th chan, 18 Be. |
| Farrie, 4th chan, 18 Be. | The following table gives the different branch of closes manufactured by the

Government, and the prices at which they could be bought in 1807 in Estimate (i. s. a place privileged for the sold):—

	Corresponding Ha-		Number			
Menns (Classes.)	viiro Brints.	Per tarretse	1010.	Per-	roba.	
Imperiales. Prinsk Vegation. Prinsk Vegation. Prinsk Vegation. Prinsk superior Filipian. Ja Superior Filipian. Ja Superior Filipian. Prinsk Filipian. Segando Superior Prinsk Filipian. Segando Certado. Segando Certado. Minus. Prinsk Bulgo, lorge.	De, Regnile. Dis, None. Lorifres Su perior Habents Segurate superior a Habono The Sense	Debs. 37.59 37.50 38.00 21.00 24.00 24.00 24.00 26.50	Dole. 30.00 30.00 20.00 10.00 15.10 15.00 8.571 15.03 8.571	Cents.	1400 2000 1400 2000	
Prima Batigo, lerga Segunda Batido, largo	Neer. Neer.	18.75	11	1	1800 3750	

<sup>1</sup> Arrobe, 33 the.

THE FORMER PHILIPPINES THRU POREIGN PURS A Government Order of January, 1866, directed the

= Extlina the group that have the gelden coo."

tobacco cultivation in the Philippines to be extended as much as possible, in order to satisfy the requirements of the colony, the mother country, and also the export trade; and in the memorial already quoted, "reforms" are proposed by the Captain-General, in the spirit of the goose with golden eggs. By grafting new monopolies upon those already existing, he believes that the tobacco produce can be increased from 182,102 cwt. (average of the years 1860 to 1867) to 600,000, and even 800,000 cwt. Meantime, with a view to obtaining increased prices, the Government resolved to export the tobacco themselves to the usual markets for sale; and in the year 1868 this resolution was really carried out. It was sent to London, where it secured so favorable a market that it was at once decreed that no tobacco in Manila should thenceforth be sold at less than \$25 per cwt.\* This decree, however, referred only to the first three qualities, the quantity of which decreased in a relative measure with the increased pressure upon the population. Even in the table annexed to the record of La Gandara this is very clearly shown. Whilst the total produce for 1867 stood at 176,018 cwt, (not much under the average of the years 1860 to 1867, viz., 182,102 ewt.), the tobacco of the first class had decreased in

Oldere Soute

quantity since 1862 from over 13,000 to less than 5,000 cwr The fourth, fifth, and sixth classes, the greater part of which would before have been burnt, but which now form no inconsiderable portion of the total crop, are in the open markets positively unsalcable, and can be utilized only in the form of a bonus to Spain, which

On on average 407,500,000 cigars and 1,041,000 ths, now tobacco are experted annually, the weight of which together is about 56,000 cm; after deducting what is given own in the form of gravities.

annually receives, under the title of elenciones & la negingulo upwards of 100,000 cwt. If the colony were not compelled to pay half the freight of these gifts. Spain would certainly ask to be relieved of these "marks of attention." Seeing that, according to the decision of the chief of the Government, the greater portion of this tobacco is of such inferior quality that it can find no nurchoser at any price, it is impossible that its value should cover either the cost of carriage or the customs duty. Moreover, this tobacco tribute is a great burden on the colonial budget; which, in spite of all deficits, is charged with the expenses attending the collection of the tobacco, its packing, its cost of local transport, and half the expense of its carriage to Europe.

Dated in March, 1871,—the beginning of a Golden Age, De La if De La Gandara's plans had been carried out and his support expectations realized,-there exists an excellent statement from the Intendent-General addressed to the Minister of Colonies pointing out plainly to the chief of the Government the disadvantages arising from this mode of administration, and urging the immediate reneal of the monopoly. In the next place proof was adduced, supported by official vouchers, that the profits derived from the tobacco monopoly were much smaller than usual. The total average receipts of the tobacco administration for the five years 1865 to 1869, according to official accounts, amounted to \$5,367,262; for the years 1866 to 1870 only \$5,240,935. The expenses cannot be accurately estimated, inasmuch as there are no strict accounts obtainable; if, however, the respective expenses

charged in the colonial budget are added together, they amount to \$3,717,322 of which \$1,812,250 is for nurchase of raw tobacco. Besides these expenses pertaining exclusively to the Nick of profit tobacco administration there are still many other differ-

ent items to be taken into account: yet the cost incurred in this branch of the service would be saved, if not altogether, at least largely, if the State surrendered the tobacco monopoly. The total of the disbursements must certainly, at the very lowest, he estimated at \$4,000,000; so, therefore, the State receives only a net profit of \$1,367,000; but even this is not to be reckoned on in the future, for if the Government does not speedily cease carrying on this trade, they will be forced into a very considerable and unavoidable expense. To begin with, they must erect new factories and warehouses: better machinery must be bought; wages will have to be considerably increased; and, above all, means must be devised to pay off the enormous sum of \$1,600,000 in which the Government is indebted to the neasants for

THE FORMER PHILIPPINES THRU FOREIGN EYES

the crops of 1869 and 1870, and to assure cash payments for future harvests. "This is the only possible mode of preventing the decay of the tobacco cultivation in the different provinces, as well as relieving the misery of the wretched inhabitants." Later Asius proved how trilling in reality the arrears low-breeking were on account of which the Government was abandoning the future of the colony, and showed the misfortunes, of which I shall mention, these briefly, only a few, resulting from the monopoly. He represented that the people of the tobacco district, who were the richest and most contented of all in the Archipelago, found themselves plunged into the deepest distress after the increase of the Government dues. They were, in fact, far more cruelly treated than the slaves in Cuba, who, from selfinterested motives, are well-nonrished and taken care of: whereas in this case, the produce of compulsory labor has to be delivered to the State at an arbitrarily deter-

mined price; and even this price is paid only when the condition of the treasury, which is invariably in diffi-

culties, permits. Frequently their very means of subsistence failed them, in consequence of their being forhidden to carry on the cultivation; and the unfortunate neonle, having no other resources for the relief of their pressing necessities, were compelled to alienate the debtor's bond, which purchased the fruits of their enforced toil but had been left unpaid. Thus, for an inconsiderable deficit of about \$1,330,000, the whole nonulation of one of the richest provinces is thrown into abject misery; a deep-rooted hatred naturally arises between V the people and their rulers; and incessant war ensues between the authorities and their subjects. Besides which, an extremely dangerous class of smugglers have recently arisen, who even now do not confine themselves to mere smuggling, but who, on the very first opportunity presented by the prevailing discontent, will bend themselves together in one solid body. The official administrators, too, are charged with gross bribery and corruption; which, whether true or not, occasions great scandal, and engenders increasing disrespect and distrust of the colonial administration as well as of the Spanish people v generally.\*

The preceding memorial has been not only written, but Greek The preceding memorial has been not only written, our spenies to also printed; and it seems to indicate that gradually as memorial. in Spain, and also in wider circles, people are becoming convinced of the untenableness of the tobacco monopoly; yet, in spite of this powerful review, it is considered doubtful by competent judges whether it will be given up so long as there are any apparent or appreciable returns derived therefrom. These acknowledged evils a have long been known to the Colonial Government;

\* The proce persons being brought into this situation finds it very hard to emental in the contrary. He is conspected to decrease manyley at in the spiritery strength of the consequently, while deeper and deeper into debt and spiritery remarks, upon, consequently, sakes steeper and sooper into deth and systemy. Qui-tered of fines or baddly pursisherman, saker then the grouper of their prices is the cities are thind by which the sequilies can be kent up.ju-(Report of the Engine

but, from the frequent changes of ministers, and the increasing want of money, the Government is compelled. so long as they are in office, to use all possible means of obtaining profits, and to abstain from carrying out these urgent reforms lest their own immediate downfall should be involved therein. Let us, however cherish the hope that increased demand will cause a rise in the prices; a few particularly good crops, and other propitious circumstances, would relieve at once the Insular Treasury from its difficulties; and then the toherco monopoly might be cheerfully surrendered. One circumstance favorable to the economical management of the State that would be produced by the surrender of the tobacco monopoly would be the abolition of the numerous army of officials which its administration requires. This might, however, operate reversely in Spain. The number of place-hunters created must be very welcome to the ministers in power, who thus have the opportunity of providing their creatures with profitable places, or of shipping off inconvenient persons to the Antipodes from the mother-country, free of cost. The colony, be it known, has not only to pay the salaries. but also to bear the cost of their outward and homeward voyages. Any way, the custom is so liberally patronized that occasionally new places have to be created in order to make room for the newly-arrived

nominees.\*

<sup>\*</sup> From December 1823 to Nurseller, 1824 to vicing memoric floor ception and management them deprints and two previousless. In 1826 in any memoric, Chief management that deprint and two previousless. In 1826 in any memoric, Chief Membra of the Crips, Control, and Judicians, and the Crips of the Crips of

At the time of my visit, the royal factories could without our not turn out a supply of cigars commensurate with the higher these somirements of commerce; and this brought about a successful peculiar condition of things; the wholesale dealer, who purchased cigars in very considerable quantities at the government auctions, paying higher than the retail eates at which he could hav them singly in the estaucia. In order, therefore, to prevent the merchants drawing their stocks from the estancias, it was determined that

only a certain quantity should be purchased, which limit no merchant dared exceed. A very intricate system of control, assisted by espionage, had to be employed in seeing that no one, through different

agents and different estancias, collected more than the authorised supply; and violation of this rule, when discovered, was punished by configuration of the offender's stock. Everybody was free to purchase cigars in the estaucia, but nobody was permitted to sell a chest of cigars to an acquaintance at cost price. Several Spaniards with whom I have spoken concerning these strange regulations maintained them to be perfectly just, as otherwise all the cients would be carried off by foreigners, and they would not be able themselves in their own colony to smoke a decent cigar. It There was, as I afterwards learnt, a still more urgent Many Payoton reason for the existence of these decrees. The gov-

ernment valued their own gold at sixteen dollars per ounce, while in commerce it fetched less, and the premium on silver had, at one time, risen to thirty-three per cent. Moreover, on account of the insufficient quantity of copper money for minor currency, the small change frequently gained a premium on the silver dollar, so much so that by every purchaser not less than half a dollar was realized. In exchanging the dollar from five to fifteen per cent discount was charged; it was profitable, therefore, to purchase eigars in the estancias with the gold ounce, and then to retail them is mailler quantities nominally at the rate of the estancias. Both premiums together might in an extreme case amount to as much as forty-three per cent.\*

Not being able to give a description of the cultivaties of sobsect from personal knowledge and escorience.

caltisation

I refer the reader to the following short extract from the Cartilla Agricola:— Directions for preparing and laying out the seed beds.—

A suitable piece of land is to be enclosed quadrilaterally by boundaries, ploughed two or three times, cleared of all weeds and roots, made somewhat sloping, and surrounded by a shallow ditch, the bed of which is to he divided by drains about two feet wide. The soil of the same must be very fine, must be ground almost as fine as powder, otherwise it will not mix freely and thoroughly with the extremely fine tobacco seed. The seed is to be washed, and then suspended in cloths during the day, in order to allow the water to run off; after which it is to be mixed with a similar quantity of ashes, and strewn carefully over the bed. The subsequent successful results depend entirely upon the eareful performance of this work. From the time the seed first begins to sprout, the beds must be kept very clean, in dry weather sprinkled daily, and protected from birds and animals by brambles strewn over, and by means of light mats from storms and heavy rains. After two months the plants will be between five and

six inches high, and generally have from four to six leaves; they must then be replanted. This occurs, "The rouse of lab remain on sive was, but the Chines bought you did Sprein and Meriden delhase, in order to man have to Chines, should be settled to the control of the contr

citis. The Chlanas are accurdanced to bring poll and after a currency, much also with foreign extense, to Marilla for the purpose of baying the produce of country; and all this life multive meritains had recordingly carried. This cocontrol who is springly important that the contribute were partly. This cocontrol who is springly important that the contribute were related. In the fastular Treasury the gold and silver delter are always reckned on the sure value. supposing the seed-beds to have been prepared in September, about the beginning or the middle of November. A second sowing takes place on the 18th of Ottober, as much as a precaution against possible failure, as for obtaining plants for the lowlands.

obtaining plants for the lowlands. Concerning the land most advantageous to the tobacco and its cultivation. Replanting of the seedlings.-Land must be chosen of middling grain; somewhat difficult, calciferous soil is particularly recommended, when it is richly fertilized with the remains of decayed plants, and not less than two feet deep; and the deeper the roots are inserted the higher will the plant grow. Of all the land adapted to the tobacco cultivation, that in Cagayan is the best, as from the overflowing of the large streams, which occurs every year, it is laid under water, and annually receives a new stratum of mud, which renders the soil particularly productive. Plantations prepared upon such soil differ very materially from those less favored and situated on a higher level. In the former the plants shoot up quickly as soon as the roots strike; in the latter they grow slowly and only reach a middling height. Again in the fertile soil the plants produce quantities of large, strong, juicy leaves, giving promise of a splendid harvest. In the other case the plants remain considerably smaller and grow sparsely. Sometimes, however, even the lowlands are flooded in January and February, and also in March, when the tobacco has already been transplanted, and grown to some little height. In that event everything is irreparably lost, particularly if the flood should occur at a time when it is too late to lay out new plantations. High-lying land also must, therefore, be cultivated. in the hope that by very careful attention it may yield a similar return. In October these fields must be ploughed three or four times, and harrowed twice or thrice. On account of the floods, the lowlands cannot be ploughed until the end of December, or the middle of January: when the work is light and simple. The strongest plants in the seed-beds are chosen, and set in the prepared grounds at a distance of three feet from each other, care being taken that the earth clinging to

the roots is not shaken off.

Of the care necessary to be bestowed upon the plants.-In the east a little screen, formed by two clods, is to be erected, with a view to protecting the plant from the morning sun, and retaining the dew for a longer time. The weeds to be carefully exterminated, and the wild shoots removed. A grub which occasionally appears in great numbers is particularly dangerous. Rain is very injurious immediately before the ripening, when the plants are no longer in a condition to secrete the summy substance so essential to the tobacco, which, being soluble in water, would be drawn off by the action of the rain. Tobacco which has been exposed to had weather is always deficient in juice and flavor, and is full of white spots, a certain sign of its had quality The injury is all the greater the nearer the tobacco is to its ripening period; the leaves hanging down to the ground then decay, and must be removed. If the subsoil is not deep enough, a carefully tended plant will turn yellow, and nearly wither away. In wet seasons this does not occur so generally, as the roots in insufficient depth are enabled to find enough maisture

Culling and manipulation of the leaves in the design shed .- The topmost leaves ripen first; they are then of a dark yellow color, and inflexible. They must be cut off as they ripen, collected into bundles, and brought to the shed in covered carts. In wet or cloudy weather, when the nightly dews have not been thoroughly evaporated by the sun, they must not be cut. In the shed the leaves are to hang upon cords or split Spanish cane. with sufficient room between them for ventilation and drving. The dried leaves are then laid in piles, which must not be too big, and frequently turned over. Extreme care must be taken that they do not become overheated and ferment too strongly. This operation which is of the utmost importance to the quality of the tobacco, demands great attention and skill, and must be continued until nothing but an aromatic smell of tobacco can be noticed coming from the leaves; but the necessary skill for this manipulation is only to be acquired by long practice, and not from any written instructions

An important portion of the population remains to be Important of discussed, viz. the Chinese, who are destined to play (November 2) a remarkable part, inasmuch as the development of the land-cultivation demanded by the increasing trade and commercial intercourse can be affected only by Chinese industry and perseverance. Manile has always been a favorite place for Chinese immigrants; and neither the hostility of the people, nor oppressing and prohibitory decrees for a long time by the Government, not even the repeated massacres, have been able to prevent their coming. The position of the Islands. south-east of two of the most important of the Chinese provinces, must necessarily have brought about a trade between the two countries very early, as ships can make the voyage in either direction with a moderate wind, as well in the south-west as the north-east mon-

soon. In a few old writers may even be found the assertion that the Philippine Islands were at one time sub-

(Letters Edifuntes) mentions that Jaung-lo (of the Ming dynasty) maintained a fleet consisting of 30,000 men, which at different times proceeded to Manila.

ject to the dominion of China; and Father Gaubil Early (Voince

The presence of their ships as early as the arrival of Magellan in the extreme east of the archipelago, as well us the China plates and earthenware vessels discovered in the excavations, plainly show that the trade with China had extended far earlier to the most distant islands of the archipelago. It formed the chief support of the young Spanish colony, and, after the rise of the Encomiendus, was nearly the only source of its prosperity. It was feared that the junks would offer their cargoes to the Dutch if any obstacle was put in the way of their coming to Manila. The colony certainIndustrial and concentrial

leys," who came annually in great numbers in the junks from China, and speed all over the country and in the towns as shopkeepers, artisans, gardeners, and shermens; besides which, they were the only skillful and industrious workers, as the Flipinos under the priestly domination had forgotten altogether many trades in which they had engaged in former times. I take there facts from Mores.

Unescens, ellerapis a

In spite of all this, the Spaniards have, from the very commencement, endedvored risorously to limit the number of the Chinese; who were then, as they are now, envied and hated by the natives for their industry. frugality, and cunning, by which means they soon became rich. They were an abomination, moreover, in the eyes of the priests as being irreclaimable heathers, whose example prevented the natives from making progress in the direction of Christianity; and the government feared them on account of the strong bond of union existing between them, and as being subjects of so powerful a nation, whose close proximity threatened the small body of Spaniards with destruction. Fortunately for the latter, the Ming dynasty, which at that time was hastening to its downfall, did not think of conquest; but wickedly disposed powers which sprang into existence upon their downfall brought the colony into extreme danger.

caseas; confections

<sup>•</sup> The Chinese were generally known in the Philippines as "Sangless"; seconding to Professor School, "searchin the start search compeled, also store deliberation and al." "Sange" is more appointly replied to the travelling tealers, in opposition to "Re," internation.

<sup>† .....&</sup>quot;They are a wicked and videous people, and, owing to their numbers, and to their being such large reason, they consume the provisions and render their dear. Some of the control of the control

In the attack of the noted pirate, Limshong, in 1574, Limshop and they escaped destruction only by a miracle; and soon the new dangers threatened them afresh. In 1603 a few mandarins came to Manila, under the pretence of ascertaining whether the ground about Cavite was really of gold. They were supposed to be spies, and it was,

upon the colony was intended by the Chinese.

concluded, from their peculiar mission, that an attack The archbishop and the priests incited the distrust Essis which was felt against the numerous Chinese who were settled in Manila. Mutual hate and suspicion arose: both parties feared one another and prepared for hostilities. The Chinese commenced the attack; but the united forces of the Spaniards, being supported by the Japanese and the Filipines, twenty-three thousand, according to other reports twenty-five thousand, of the Chinese were either killed or driven into the desert. When the news of this massacre reached China, a letter

from the Royal Commissioners was sent to the Governor of Manila. That noteworthy document shows in so striking a manner how hollow the great government was at that time that I have given a literal translation of it at the end of this chapter. After the extermination of the Chinese, food and all other necessaries of life were difficult to obtain on account of the utter unreliability of the natives for work; but by 1605 the number of Chinese\* had again so increased that a decree was issued limiting them to six thousand, "these to be employed in the cultivation of the country;" while at the same time their rapid increase was taken advantage of by the captain-general for his own interest, as he exacted eight dollars from each Chinaman for permission to remain. In 1639 the Chinese population

had risen to thirty thousand, according to other informa-

<sup>• &</sup>quot;Recopiletion," Lib. tv., Tit. roll., tey. 1.

tion, to forty thousand, when they revolted and were reducted to seven thousand. "The natives, who generally were so listless and indifferent, showed the utmost eagerness in assisting in the massacre of the Chinese, but more from hatred of this industrious people than or from any feeling of friendship towards the Spaniards."\*

The void occasioned by this measurer was soon filled up again by Chinese immigrants; and in 1662 the colony was once more menseed with a new and great changer, command between eighty and one hundred thousand men, and who already had disposessed the Dutch of the Island of Formes. He demanded the absolute sub-land of Formes. He demanded the absolute and the colony and the colony and contained a fresh outbreak of any against the Chinese settlers in Manils. a great number of when were subscripted in their own "ougster" (glotto). Bowe dispersed and did timenshyers a

few in their terrer plunged into the water or hanged themselves; and a great number field in small boats to Personast. In 1700 the jealousy against the Chinese one more in 1700 the jealousy against the Chinese one more in 1700 the jealousy against the Chinese one more than 1700 the jealousy against the Chinese one more relative to the properties of the post serviceable of the robotilos, and present on the pross serviceable of the artisans and such of them as were employed by the Oovermeent, they were once again expelled. Spanish writers praise the substantiances of these measures; alleging that "under the pretuces of agriculture the Chinese curry on trade; they are causing and careful, making the Philicoline sensually of an occurrence assentive."

<sup>&</sup>quot;Informe," L. III., 33. † The Chinese were not permitted to live in the town, but in a district appeality set agant for them.

† Veterie, 274.

merce had not recovered from these severe blows; though, he adds, fortunately the Chinese, in spite of prohibitory decrees, are returning through the corrupt consivance of the governor and officials.

To the present day they are blamed as being mono- Thritty instrupolists, particularly by the creoles; and certainly, by means of their steady industry and natural commercial aptitude, they have appropriated nearly all the retail trade to themselves. The sale of European imported goods is entirely in their hands; and the wholesale purchase of the produce of the country for export is divided between the natives, creoles, and the Chinese, the latter taking about one-half. Before this time only the natives

In 1757 the icalousy of the Spaniards broke out again in the form of a new order from Madrid, directing the expulsion of the Chinese; and in 1759 the decrees of benishment, which were repeatedly eyaded, were carried into effect; but, as the private interests of the officials did not happen to coincide with those of the creole traders, the consequence was that "the Chinese soon streamed back again in incredible numbers," and made . common cause with the English upon their invasion in 1762.\* Thereupon, Sr. Anda commanded "that all the Anda's and

and creoles were permitted to own ships for the purpose of forwarding the produce to Manila.

Chinese in the Philippine Islands should be hanged," which order was very generally carried out. † The last great Chinese massacre took place in 1819, when the aliens were suspected of having brought about the cholera by poisoning the wells. The greater part of the Europeans in Manila also fell victims to the fury of the populace, but the Spaniards generally were spared. The prejudice of the Spaniards, especially of the creoles, had \* See following changes t Zutler, svi.

and against this class in particular were the laws of limitation aimed. They would willingly have let them develop the country by farming but the hostility of the natives generally prevented this.

A decree, issued in 1804, commanded all Chinese shookeepers to leave Manila within eight days, only those who were married being allowed to keep shone: and their residence in the provinces was permitted only upon the condition that they confined themselves entirely to agriculture. Magistrates who allowed these to travel in their districts were fined \$200; the deputygovernor \$25; and the wretched Chinese were nunished

with from two to three years' confinement in irons. In 1839 the penalties against the Chinese were somewhat mitigated, but those against the magistrates were still maintained on account of their venslity. In 1843 Chinese ships were placed upon terms of equality with those of other foreign countries (Leg. Ult., II., 476). In 1850 Captain-General Urbiztondo endeavored to introduce Chinese colonial farming, and with this object promised a reduction of the taxes to all agricultural immigrants. Many Chinese availed themselves of this opportunity in order to escape the heavy poll-tax; but in general they soon betook themselves to trading once

more Of late years the Chinese have not suffered from the terrible massacres which used formerly to overtake them; neither have they suffered banishment; the officials being content to suppress their activity by means of heavy and oppressive taxes. For instance, at the end of 1867 the Chinese shookeepers were annually taxed \$60 for permission to send their goods to the weekly market: this was in addition to a tax of from \$12 to \$100 on their occupations; and at the same time they were commanded thenceforth to keep their books in Spanish (Foolish Consular Report, 1869).

The Chinese remain true to their customs and mode of living in the Philippines, as they do everywhere else. When they outwardly embrace Christianity, it is done merely to facilitate marriage, or from some motive conducive to their worldly advantage; and occasionally they renounce it, together with their wives in Manila, when about to return home to China. Very many of them, however, beget families, are excellent householders. Erettee and their children in time form the most enterprising, description industrious, and wealthy portion of the resident popula-

interpose.

tion. Invigorated by the severe struggle for existence which Formitable they have experienced in their over-nogulated country.

the Chinese appear to preserve their capacity for labor perfectly unimpaired by any climate. No nation can equal them in contentedness, industry, perseverance, cunning, skill, and admitness in trades and mercantile matters. When once they gain a footing, they generally appropriate the best part of the trade to themselves. In all parts of external India they have dislodged from every field of employment not only their native but. progressively, even their European competitors. Not less qualified and successful are they in the pursuance of agriculture than in trade. The emigration from the too thickly peopled empire of China has scarcely begun. As yet it is but a small stream, but it will by and by pour over all the tropical countries of the East in one mighty torrent, completely destroying all such minor obstacles as jealous interference and impotent precaution might

Over every section of remote India, in the South of Name Sea, in the Indian Archipelago, in the states of South inforces.

America, the Chinese seem destined, in time, either to supplant every other element, or to found a mixed race upon which to stamp their individuality. In the Western States of the Union their number is rapidly on the increase; and the factories in California are worked entirely by them, achieving results that cannot be accomposibled by Eurosean labor.

Mongatier es. Cancer One of the most interesting of the many questions of large comprehensiveness which connect themselves with the penetration of the Mongolian race into America, which up till now it had been the fashion to regard as the inheritance of the Caucasians, is the relative capacity of labor possessed by both these two great races, who in the Western States of America have for the first time measured their mutual attempts in fireday rivaly increased and the results of the control of the cont

Afficients and reliability of Chinese below.

law places certain obstacles in the way of the Chinese. The courts do not protect them sufficiently from insult, which at times is aggravated into malicious manslaughter through the ill-usage of the mob, who hate them bittely a compared to the country of the mobile property of the mobile property

All has not depth in Stephen on the own part and compare with the institute of the stephen of th

as being reserved, uncompanionable workers. Nevertheless, the Chinese immigrants take their stand firmly. The western division of the Pacific Railway has been chiefly built by the Chinese, who, according to the testimony of the engineers, surpass workmen of all other nationalities in diligence, sobriety, and good conduct. What they lack in physical power they make up for in perseverance and working intelligently together. The unique and nearly incredible performance that took place on April 28, 1869, when ten miles of railway track were laid in eleven working hours along a division of land which had in no way been prepared beforehand, was accomplished by Chinese workmen

and indeed only by them could it have been practic-

able.\* Of course, the superiority of the European in respect Chinese of the highest intellectual faculties is not for a moment decrease to be doubted; but, in all branches of commercial life in which eleverness and perservering industry are necessary to success, the Chinese certainly appear entitled to the award. To us it appears that the influx of Chinese must certainly sooner or later kindle a struggle between capital and labor, in order to set a limit upon

demands perceptibly growing beyond moderation. The increasing Chinese immigration already intrudes Chiam pollen upon the attention of American statesmen questions & American of the utmost social and political importance. What influence will this entirely new and strange element

\* The calls, if lidd in our continuous line, would monore about 103,000 feet, the wright of them holes 10,000 cwt. High Chearen, were engaged in the work, releving one easibler by fairs. These uses were thosen to proken tils fatt on account of their perfection studiety, out of 10,000. her an ansum of their predefiner activity, one of 19386.

(The treatment of the 1831 London cellion misses, "miss sequenced to locarize to the form of the 1831 London cellion misses," miss sequenced to locarize to the predefiner of the 1831 London cellion misses the predefiner of the 1831 London cellion celli

exercise over the conformation of American relations; Will the Chinese found a State in the States, or go into the Union on terms of political equality with the other citizens, and form a new race by alliance with the Caucasian element? These problems, which can only be touched upon here in a transitory form, have been dealt with in a masterly manner by Pumpelly, in a fact of the dealth of the conformation of the conformat

## LETTER OF THE COMMISSARY-GENERAL OF CHINCHEW TO DON PEDRO DE ACURA, GOVERNOR OF THE PHILIPPINES

To the powerful Captain-General of Luzon:

"Having been given to understand that the Chinese who proceeded to the kingdom of Luzon in order to buy and sell had been murdered by the Spaniards, I have investigated the motives for these massacres, and begged the Emperor to exercise justice upon those who had engaged in these abominable offences, with a view to security in the future.

"In former years, before my arrival here as royal commissioner, a Chinese merchant named Tioneg, commissioner, a Chinese merchant named Tioneg, together with three mandarins, went with the permission of the Emperor of China from Luzon to Cavite, for the purpose of prospecting for gold and allver; which appears to have been an excuse, for he found neither gold nor shared the contraction of t

The watering the administration of the ex-Viceroy and Eunoching the administration of the ex-Viceroy and Eunoching the Companion, named Yanglion, uttered Tones and his companion, and the subsequently I begged the Eunoperor Now America all the papers bearing upon the matter, together with the minutes of Tioneg's accusation; when I myself examined the before-mentioned papers, and knew that everything that the accused Tionene had said was utterly until the control of the papers.

"I wrote to the Emperor and stated that, on account of the untruth which Tioneg had been guilty of, the Castilians entertained the suspicion that he wished to make war upon them, and that they, under this idea. had murdered more than thirty thousand Chinese in Luzon. The Emperor, complying with my request, punished the accused Yanglion, though he omitted to put him to death; neither was Tioneg beheaded or confined in a cage. The Chinese people who had settled in Luzon were in no way to blame. I and others discussed this with the Emperor in order to ascertain what his pleasure was in this matter, as well as in another. namely, the arrival of two English ships on the coast of Chinchew (Fukien or Amoy district) -a very dangerous circumstance for China; and to obtain His Imperial Majesty's decision as to both these most serious matters.

"We also wrote to the Emperor that he should direct the punishment of both these Chinese: and, in acknowledging our communication, he replied to us, in respect to the English shins which had arrived in China, that in case they had come for the purpose of plundering, they should be immediately commanded to depart thence for Luzon; and, with regard to the Luzon difficulty, that the Castilians should be advised to give no credence to rogues and liars from China; and both the Chinese who had discovered the harbor to the English should be executed forthwith; and that in all other matters upon which we had written to him, our will should be his. Upon receipt of this message by usthe Viceroy, the Eunuch, and myself-we hereby send this our message to the Governor of Luzon, that his Excellency may know the greatness of the Emperor of China and of his Empire, for he is so powerful that he commands all upon which the sun and moon shine, and also that the Governor of Luzon may learn with what great wisdom this mighty empire is governed, and which power no one for many years has attempted to insult, although the Japanese have sought to disturb the tranquillity of Korea, which belongs to the Government of China. They did not succeed, but on the contrary were driven out, and Korea has remained in perfect security and peace, which those in Luzon well know by report.

"Years ago, after we learnt that so many Chinese perished in Luzon on account of Tioneg's lies, many of us mandarins met together, and resolved to leave it to the consideration of the Emperor to take vengeance for to great a mateacra; and we said as follows:-The country of Luzon is a wretched one, and of very little importance. It was at one time only the abode of devils and sements: and only because (within the last few years) so large a number of Chinese went thither for the purpose of trading with the Castilians has it improved to such an extent: in which improvement the accused Sangleyes materially assisted by hard labor the walls being raised by them, houses built, and gardens laid out, and other matters accomplished of the greatest use to the Castilians; and now the question is, why has no consideration been paid for these services. and these good offices acknowledged with thanks, without cruelly murdering so many people? And although we wrote to the King twice or thrice concerning the circumstances, he answered us that he was indignant about the before-mentioned occurrences, and said for three reasons it is not advisable to execute vengeance, nor to war against Luzon. The first is that for a long time till now the Castilians have been friends of the Chinese; the second, that no one can predict whether the Castilians or the Chinese would be victorious; and the third and last reason is, because those whom the Castilians have killed were wicked, people, ungrateful to China, their native country, their elders, and their parents, as they have not returned to China now for very many years. These people, said the Emperor, he valued but little for the foregoing reasons; and he commanded the Viceroy, the Eunuch, and myself, to send this letter through those messengers, so that all in Luzon may know that the Emperor of China has a generous heart, great forbearance, and much mercy, in not declaring war against Luzon; and his justice is

indeed manifest, as he has already punished the list

Tioneg. Now, as the Spaniards are wise and intelligent. how does it happen that they are not sorry for having massacred so many people, feeling no repentance thereat, and also are not kinder to those of the Chinese who are still left? Then when the Castilians show a feeling of good-will, and the Chinese and Sangleyes who left after the dispute return, and the indebted money is repaid, and the property which was taken from the Sangleyes restored, then friendship will again exist between this empire and that, and every year tradingships shall come and go; but if not, then the Emperor will allow no trading, but on the contrary will at once command a thousand ships of war to be built, manned with soldiers and relations of the slain, and will, with the assistance of other peoples and kingdoms who pay tribute to China, wage relentless war, without quarter to any one; and upon its conclusion will present the kingdom of Luzon to those who do homage to China. "This letter is written by the Visitor-General on the

12th of the second month." A contemporary letter of the Ruler of Japan forms

a somewhat notable contrast:--LETTER OF DAIFUSAMA, RULER OF JAPAN

"To the Governor Don Pedro de Acuña, in the year 1605:

"I have received two letters from your Excellency. as also all the donations and presents described in the

inventory. Amongst them was the wine made from gropes, which I enjoyed very much. In former years your Excellency requested that six ships might come here, and recently four, which request I have always complied with "But my great displeasure has been excited by the

fact that of the four shine upon whose behalf your Excellency interposed, one from Antonio made the journey without my permission. This was a circumstance of great audacity, and a mark of disrespect to me. Does your Excellency wish to send that ship to Japan without

my permission?

Sween

and errapation

"Independently of this, your Excellency and others have many times discussed with me concerning the antecedents and interests of Japan, and many other matters your requests respecting which I cannot comply with. This territory is called Xincoco, which means 'consecrated to Idols,' which have been honored with the highest reverence from the days of our ancestor until now and whose actions I alone can neither undo nor destroy. Wherefore, it is in no way fitting that your laws should be promulgated and spread over Japan: and if, in consequence of these misunderstandings. your Excellency's friendship with the empire of Japan should cease, and with me likewise, it must be so, for I must do that which I think is right, and nothing which is contrary to my own pleasure

"Finally. I have heard it frequently said, as a reproach. that many Japanese-wicked, corrupt men-go to your kingdom, remaining there many years, and then return to Ianan. This complaint excites my anger, and therefore I must request your Excellency henceforth not to allow such persons to return in the ships which trade here. Concerning the remaining matters, I trust your Excellency will hereafter employ your judgment and circumspection in such a manner as to avoid incurring my displeasure for the future."

## XXVII THE Philippines were discovered by Magellan on the

16th of March, 1521-St. Lazarus' day.\* But it was not until 1564,† after many previous efforts had miscarried, that Legaspi, who left New Spain with five ships, took possession of the Archipelago in the name of Philip II. The discoverer had christened the islands after the sanctified Lazarus. This name, however,

\* Maggins fid on heft 21 street by a redected mrease, on the smell lisked of Maccal heft of Macc

in possession of the Spaniards. Numerous wild tribes in the interior, however, the Mahomedan states of Min- Missander in the interior, nowever, the Mannoth dans and the Sulu group, for example, have to this interested. day preserved their independence. The character of the people, as well as their political disposition, favored the occupancy. There was no mighty power, no old dynasty, no influential priestly domination to overcome. no traditions of national pride to suppress. The natives were either heathens, or recently proselytized superficially to Islamism, and lived under numerous petty chiefs who ruled them despotically, made war upon one another and were easily subdued. Such a community was called Bayaman; and it forms to this day, though in a considerably modified form, the foundation of the constitutional laws. The Spaniards limited the power of the petty chiefs, upheld slavery, and abolished hereditary spanobility and dignity, substituting in its place an aristocracy created by themselves for services rendered to the State; but they carried out all these changes very grad-

Villalghes gave this posses to use of the Southern ideals and Legoné exceleded it to the entire archipeless.—C.
 I "Accessing to recent anthers they were also named after Villabbes in 15th.—blosses, p. 5.

ually and cautiously.\* The old usages and laws, so long as they did not interfere with the natural course of government, remained untouched and were operative by legal sanction; and even in criminal matters their validity was equal to those emanating from the Spanish courts. To this day the chiefs of Barangay, with the exception of those bearing the title of "Don," have no tables of orest privileges save exemption from the poll-tax and socare service. They are virtually tax-collectors, excepting that they are not paid for such service, and their private means are made responsible for any deficit. The prudence of such a measure might well be doubted, without regard to the fact that it tempts the chiefs to embezzlement and extortion; and it must alienate a class of natives

who would otherwise be a support to the Government. Since the measures adopted in alleviation of the conquest and occupancy succeeded in so remarkable a manminimizatore. . According to Marga (p. 146) there was neither him nor poveroor, but in

each island and previous wire measures persons of rais, whose dependent and subjects used and previous wire measures persons of rais, whose dependent and subjects used diright into quarters (terrain) and facilies. These putty rains had to render bursage by means of tributes from the cross (ava), also by second this to consert meetings on present is conserted from the group through any to give one of present privilege but their relutions were extended from such a review on were the probabilists (consent). The diagnities of the chiefman were here-distant, they the publishes (consent). The diagnities of the chiefman were here-distant, they the publishes (consent through the family of the consent through the family of the consent trained to the chiefman were the convenience trained to the publishes the chiefman of the family on through their consentrations of the chiefman which is the family of the chiefman through their consentrations of the chiefman which the chiefman is the chiefman through their consentrations of the chiefman through their chiefman through their consentrations of the chiefman through their chiefman through their consentrations of the chiefman through their chiefman through their consentrations of the chiefman through their consentrations of the chiefman through their consentrations of the chiefman through their consentrations of their chiefman through their consentrations of the chiefman through their chiefman through their consentrations of the chiefman through their chiefman through through their chiefman through their chiefman through their chiefman through their chi officials. Concerning the system of stavery under the native rine, merga may (p. 4), obtaviously, —The nation of these intends on divided into the c classes and the concern of adults, the shaves of the forms. There are differ-(p. 4), abbrevioned),—"The nation of these interprises and on interface classes -another, throaten or pitelesses, and the shares of the former." There are tiller real series of sharest some in complete sharesys (decemberly). There are tiller real series of sharest some in complete sharesys (decemberly). There are tiller and the sharest some in the sharest some control of the sharest series of these most house and enter a real sharest some some sharest some control of the sharest series of series and the construction of houses, etc. They may attend on other as the start of them as they are required, and give their savders without part or recreating of any bind. They required, and give time acrivers without pany or recentarian of any since, and ask defended of the defendent obligations described to their children and one of the defendent of sloves, some has saves, and other number made.

When, the insamer, the sender or faither was five, the only new weeful to half fee, laid slove. Supposing there were a versal saves, the first can inherita the faither's position, the second tell months?. When the number is unequal the laid one is half free any half slove; and the degradately been of such half. the hast one in half free and helf slave; and the describing here or man assures and those who are free no quarter shaves. The helf slaves, whether so three and those who are nee or quanter, mayer. The hen shaves, warrant presenting or manuscripted, were their death squally every mouth in turns frail end quarter shaves (see, by mound of their their contains free, expert their Figir and quarter given can, by muon of their being contains free, comprisional tent to give these their freedom at a provincing determined and undertacted price: but followers do not possess this right. A noncontage is worth half as sunds as a sequipality. All shows we undertake Again, at p. 143, in white: "Ankies who backliften by fire loof is therefor freed tagether socia her children. The lotter, lowever, see not considered well born, and causes inherit property; nor do the rights of achildry, supposing in

such a case the father to person one, downed to thee."

ner, the governors and their subordinates of those days, at a time when Spain was powerful and chivalrous, naturally appear to have been distinguished for wisdom and high spirit. Legaspi possessed both qualities in a marked degree. Hardy adventurers were tempted there.

as in America, by privileges and inducements which power afforded them; as well as by the hope, which, fortunately for the country, was never realized, of its being rich in auriferous deposits. In Luzon, for instance, Hernando Riquel stated that there were many goldmines in several places which were seen by the Spaniards; "the ore is so rich that I will not write any more about it. as I might possibly come under a suspicion of exaggerating; but I swear by Christ that there is more gold on this island than there is iron in all Biscay." They compared received no pay from the kingdom; but a formal right encountries was given them to profit by any territory which was brought into subjection by them. Some of these expe-

taken for private gain, others for the benefit of the governor; and such service was rewarded by him with grants of lands, carrying an annuity, offices, and other benefits (excomiendas, oficios y aprovechamientos). The grants were at first made for three generations (in New Spain for four), but were very soon limited to two; when De los Rios pointed this out as being a measure very prejudicial to the Crown, "since they were little prepared to serve his Mojesty, as their grand-children had fallen into the most extreme poverty." After the death of the feoffee the grant reverted to the State; and the governor thereupon disposed of it nnew. The whole country at the outset was completely The fested

ditions in search of conquest were enterprises under-

divided into these livings, the defraving of which formed by far the largest portion of the expenses of the kingdom, Investitures of a similar nature existed, more or less, 344

in a territory of considerable extent, the inhabitants of which had to pay withink to the feoffer; and this tribute had to be raised out of the feoffer; and this tribute had to be raised out to great and as every low reads. On the feoffer had to be raised to the feoffer had to a very low rate, but said by him to the Chinese and as a very low rate, but said by him to the Chinese and as a very low rate, but said by him to the Chinese and a very low rate, but said by him to the Chinese and a state of said-you, until forbidden by a Said of Pope Greepey XIV, dated April 18, 1931. Kaff and toggo slaves, whom the Phanganesi imported by way of India, were, however.

ortions of

The original holders of feudal tenures amassed considerable booty therefrom. Zuñiga relates that as early as the time of Lavezares, who was provisional governor between 1572 and 1575, he visited the Bisayas and checked the covetousness of the encomenderos, so that at least during his rule they relaxed their system of extortion. Towards the end of Sande's government (1575-80) a furious quarrel broke out between the priests and the encomenderos; the first preached against the oppression of the latter, and memorialized Philip II thereon. The king commanded that the natives should , be protected, as the extortionate greed of the feudal chiefs had exceeded all bounds; and the natives were then at liberty to pay their tribute either in money or in kind. The result of this well-intentioned regulation appears to have produced a greater assiduity both in agriculture and trade, "as the natives preferred to work without coercion, not on account of extreme want." And here I may briefly refer to the achievements of Juan de Salcedo, the most illustrious of all the conquerors. Supported by his grandfather, Legaspi, with forty-five Spanish soldiers, he fitted out an expedition at his own expense, embarked at Manila, in May, 1572, examined all parts of the west coast of the island, landed

alendo "sand Instrinució in all the bays which were accessible to his light-draught

ships, and was well received by the natives at most of the places. He generally found great opposition in nenetrating into the interior; yet he succeeded in subduing many of the inland tribes; and when he reached Cape Boieador, the north-west point of Luzon, the extensive territory which at present forms the provinces of Zambales, Pangasinan, and Ilocos Norte and Sur, acknowledged the Spanish rule. The exhaustion of his soldiers obliged Salcedo to return. In Vigan, the present capital of Ilocos Sur, he constructed a fort, and left therein for its protection his lieutenant and twenty-five men, while he himself returned, accompanied only by seven-

teen soldiers, in three small vessels. In this manner he reached the Cagayan River, and proceeded up it until forced by the great number of hostile natives to retreat to the sea. Pursuing the voyage to the east coast, he came down in course of time to Paracale, where he embarked in a boat for Manila, was capsized, and rescued

from drowning by some passing natives. In the meantime Legaspi had died, and Lavezares "The Control

was provisionally carrying on the government. Salcedo of the heard of this with vexation at being passed over; but, when he recovered from his lealousy, he was entrusted with the subjugation of Camarines, which he accomplished in a short time. In 1574 he returned to Ilocos, in order to distribute annuities among his soldiers, and to receive his own share. While still employed upon the building of Vigan, he discovered the fleet of the notorious Chinese pirate, Limshong, who, bent upon taking possession of the colony, was then passing that part of the coast with sixty-two ships and a large number of soldiers. He hastened at once, with all the help which he could

summon together in the neighborhood, to Manile, where he was nominated to the command of the troops, in the THE FORMER PHILIPPINES THRU POREIGN RYES

place of the already deposed master of the forces; and he drove the Chinese from the town, which they had destroyed. They then withdrew to Pangasinan, and Salcedo burnt their fleet; which exploit was achieved with very great difficulty. In 1576 this Cortes of the Philippines died \*

Conversion Apart from the priests, the first-corners consisted only of officials, soldiers, and sailors; and to them, naturally,

fell all the high profits of the China trade. Manila was their chief market, and it also attracted a great portion of the external Indian trade, which the Portuguese had frightened away from Malacca by their excessive cruelty. The Portuguese, it is true, still remained in Macao and the Moluccas: but they wanted those remittances which were almost exclusively sought after by the Chinese viz. the silver which Manila received from New Spain.

Spein and In 1580 Portugal, together with all its colonies, was handed over to the Spanish Crown; and the period extending from this event to the decay of Portugal (1580-1640) witnessed the Philippines at the height of their power and prosperity.

The Governor of Manila ruled over a part of Mindanao, Sulu, the Moluccas, Formosa, and the original Portuguese possessions in Malacca and India. "All that lies between Cape Singapore and Japon is subject to Luzon; their ships cross the ocean to China and New Spain, and drive so magnificent a trade that, if it were only free, it would be the most extraordinary that the world could show. It is incredible what glory these islands confer unon Spain. The Governor of the Philippines treats with the Kings of Cambodia, Japan, China. The first is his

ally, the last his friend; and the same with Japan. He declares war or pence, without waiting for the com-4 He made the Philippens of his encountends of Vigne his heirs, and has ever been held in graceful manners.—6.

2.05

mand from distant Spain." But the Dutch had now Dutch begun the struggle, which they managed to carry on against Philip II in every comer of the world; and even in 1610 De Los Rios complained that he found the country very much altered through the progress and advance made by the Dutch; also that the Moros of Mindanao

and Sulu, feeling that they were supported by Holland. were continually in a state of discontent. The downfall of Portugal occasioned the loss of her Desires of colonies once more. Spanish policy, the government of the priests, and the jealousy of the Spanish merchants and traders especially, did everything that remained to be done to prevent the development of agriculture and commerce-perhaps, on the whole, fortunately.

for the natives.

The subsequent history of the Philippines is, in all its Philippines particulars, quite as unsatisfactory and uninteresting lossy as that of all the other Spanish-American possessions. Ineffectual expeditions against pirates, and continual associatory. disputes between the clerical and secular authorities. form the principal incidents.

After the first excitement of religious belief and military Undertalle renown had subsided, the minds of those who went engrand later to these outlying possessions, consisting generally as they did of the very dregs of the nation, were seized with an intense feeling of selfishness; and frauds and peculations were the natural sequence. The Spanish writers are full of descriptions of the wretched state of society

then existing, which it is unnecessary to repeat here-The colony had scarcely been molested by external gagast enemies, with the exception of pirates. In the earliest

<sup>1</sup> Chamies ("Observations and Versa," p. 22), there's to the translator of Zurilge, been that he was in duty beind to used at some legals over this recedent blacery; through Zurilge's necessite above, comparablely specified, and the police. The judiciously abbreviated English translation. however, contains many missamperiemion.

time the Dutch had engaged occasionally in attacks on the Bisayas. But in 1762 (during the war of the Bourbon succession) an English fleet suddenly appeared before Manila, and took the surprised town without any difficulty. The Chinese allied themselves with the English. A great insurrection broke out among the Filipinos, and the colony, under the provisional government of a feeble archbishop, was for a time in great danger. It was reserved for other dignitaries of the Church and Anda, an energetic patriot, to inflame the natives against the foreigners; and the opposition incited by the zealousness of the priests grew to such an extent that the English, who were confined in the town, were actually glad to be able to retreat. In the following year the news arrived from Europe of the conclusion of neace; but in the interval this insurrection, brought about by the invasion, had rapidly and considerably extended: and it was not suppressed until 1765, when the work was accomplished by creating enmity among the different tribes.\* But this was not done without a loss to the province of Ilocos of two hundred sixty-nine thousand two hundred and seventy persons - half of the population, as represented by Zuñiga.

Heng neise sprinings from

Severity and want of tact on the part of the Government and their instruments, as well are highered discussions, have caused many revolts of the nativest yet some, it is true, of any great dauger to the Sirve discussion of the sale ways been confined to a single discussion of content has always been confined to a single discussion of the natives do not form a united mainten, neither the bend of a common speech nor a general interest binding the different tribes together. The state communications and lows among them scarcely reach beyond the bordens of the villages and their dependencies.

\* Principally by hiring the monomination of the gifted native lender, Stiang,-----

A consideration of far more importance to the distant Proper/two metropolis than the condition of the constantly excited ..... natives, who are politically divided among themselves, and really have no steady object in view, is the attitude of the mestizos and creoles, whose discontent increases in proportion to their numbers and prosperity. The military revolt which broke out in 1823, the leaders of which were two creoles, might easily have terminated fatally for Spain. The latest of all the risings of the mestizes seems to have been the most dangerous, not only to the Spanish power, but to all the European

nonviotion \*

On the 20th of January, 1872, between eight and nine concentre in the evening, the artillery, marines, and the garrison of the arsenal revolted in Cavite, the naval base of the Philippines, and murdered their officers; and a lieutenant who endeavored to carry the intelligence to Manila fell into the hands of a crowd of natives. The news therefore did not reach the capital until the next morning, when all the available troops were at once dispatched, and, after a heavy preliminary struggle, they succeeded the following day in storming the citadel. A dreadful slaughter of the rebels ensued. Not a soul escaped. Among them was not a single European; but there were many mestizos, of whom several were priests and lawyers. Though perhaps the first accounts, written under the influence of terror, may have exaggerated many particulars, yet both official and private letters ogree in describing the conspiracy as being long contemplated, widely spread, and well planned. The whole fleet and a large number of troops were absent at the time, engaged in the expedition against Sulu.

A portion of the garrison of Manila were to rise at the same time as the revolt in Covire, and thousands of natives were to precipitate themselves of natives were to precipitate themselves otherwise the manual region of the conspiracy was, it appears, only attributable of the conspiracy was, it appears, only attributable of trustate accident—to the circumstance, namely, that a body of the rebels mistook some rocket fired upon the occasion of a Church feature for the arevest and the constant of a Church feature for the arevest and the constant of a Church feature for the arevest and the constant of a Church feature for the arevest and the constant of a Church feature for the arevest and the constant of a Church feature for the arevest and the constant of a Church feature for the arevest and the constant of a Church feature for the arevest and the constant of a Church feature for the area of the constant of the con

and commenced the attack too soon.\*

Let me be permitted, in conclusion, to bring together a few observations which have been scattered through

the text, touching the relations of the Pfilippines with foreign countries, and briefly speculate thereon. Credit is certainly due to Spain for having bettered the condition of a people who, though comparatively

speaking highly civilized, yet being continually distracted by petry ware, and make into a disordered and uncultivated state. The inhalants of three beautiful standars, upon the whole many many the considered to have lived as confectably during the considered to have lived as confectably during general by mild laws, as those of any other tropoling general by mild laws, as those of any other tropoling measure, and the confectable of the confectable of the connative or European ways—owing, in some measure, to the frequently discussed peculiar circumstances to which protect the increases of the neglection.

The friars, also, have certainly had an essential part in the production of the results.

Sprung from the lowest orders, inured to hardship and want, and on terms of the closest intimacy with the natives, they were peculiarly fitted to introduce them to a practical conformity with the new religion and code of morality. Later on, also, when they possessed rich

riers en

livings, and their devout and scalous interest in the welfare of the masses relaxed in proportion as their incomes increased, they materially assisted in bringing shout the circumstances already described with their favorable and unfavorable sanects. Further, possessing neither family nor good education, they were disposed to associate themselves intimately with the natives and their requirements; and their arrogant opposition to the temporal power generally arose through their connection with the natives. With the altered condition of things, however, all this has disappeared. The colony can no longer be kept secluded from the world. Every facility afforded for commercial intercourse is a blow to the old system, and a great step made in the direction of broad and liberal reforms. The more foreign capital and foreign ideas and customs are introduced, increasing the prosperity, enlightenment, and self-respect of the population, the more impatiently will

the existing evils be endured. England can and does open her possessions uncon- Course England can and does open her possessions uncon- users figured with English commends to the world. The British colonies are united with English to the mother country by the bond of mutual advantage.

eiz, the production of raw material by means of English capital, and the exchange of the same for English manufactures. The wealth of England is so great, the organization of her commerce with the world so complete, that nearly all the foreigners even in the British possessions are for the most part agents for English business houses, which would scarcely be affected, at least to any marked extent, by a political dismemberment. It is entirely different with Snain, which possesses the colony as an inherited property, and without the power of turning it to any useful account.

Government monopolies rigorously maintained, Hesses to insolent disregard and neglect of the mestizos and power-

ful creoles, and the example of the United States, were

the chief reasons of the downtall of the American possessions. The same causes threaten ruin to the Philippines: but of the monopolies I have said enough.

Mestizos and creoles, it is true, are not, as they formerly were in America, excluded from all official appointments; but they feel deeply hurt and injured through the consolo of place-hunters which the frequest her consolo of place-hunters which the frequest her consolo of place hunters which the relations are not to the same of the American element is at least visible on the shorton, and will be more noticeable when the relations increase between the two countries. At present they increase the same of t

a few decades produce on either side of our planet. For the first time in the history of the world the mighty powers on both sides of the ocean have commenced to enter upon a direct intercourse with one nonther—Russla, which alone is larger than any two other parts of the earth; China, which centains within its own boundaries a third of the population of the world; and America, with ground under cultivation ready sufficient to feed trebbe the total population of the earth. Russla's future role in the Pacific Ocean the earth. Russla's future role in the Pacific Ocean the earth. Russla's future role in the Pacific Ocean t

is not to be estimated at present.

Chief and
Assertion.

The trade between the two other great powers will therefore be presumably all the heavier, as the rectification of the pressing need of human labor on the one side;

and of the corresponding overplus on the other, will fall to them.

The world of the ancients was confined to the shores Newison of the Mediterranean; and the Atlantic and Indian are said-Oceans sufficed at one time for our traffic. When first the shoot of the Positio re-school with the sounds of active commerce, the trade of the world and the history of the world may be really said to have besun. A start in that direction has been made; whereas not so very long ago the immense ocean was one wide waste of waters, traversed from both points only once a year, From 1603 to 1769 scarcely a ship had ever visited California that wonderful country which twenty-five years ago, with the exception of a few places on the coast, was an unknown wilderness, but which is now covered with flourishing and prosperous towns and cities, served by a sea-to-sea railway, and its capital already ranking the third of the seaports of the Union: even at this early store of its existence a central point of the world's commerce, and apparently destined, by the proposed junction of the great oceans, to play a

In proportion as the navigation of the west coast Tiening to .... of America extends the influence of the American element over the South Sea, the captivating, magic power which the great republic exercises over the Spanish colonies" will not fail to make itself felt also in the Philippines: The Americans are evidently destined to bring to a full development the germs originated by the Spaniards. As conquerors of modern times, representing the age of free citizens in contrast to the age of knighthood,

most important part in the future.

" I take the liberty, here, of citing an instance of this. In 1861, when I found styrelf on the West Court of Mexico, a sharp backwoods families deterseems stylen on the West Coast of Mexico, a coast in Decreaced feasible inter-tioned upon settling in Sector (Spring an coast in the Identity) a glass shifts was frustrand by the Investign of that time of the Kuropean powers Many votice families mented the original of these immigrants in order to active under their protection. The value of limit in consequence of the amenumentary of the project the THE FORMER PHILIPPINES THRU FOREIGN EYES
they follow with the plow and the axe of the pioneer,
where the former advanced under the sign of the cross

where the former with their swords.

A considerable portion of Spanish-America already belongs to the United States, and has since attained an importance which could not possibly have been anticipated either under the Spanish Government or during the anarchy which followed. With regard to permanence, the Spanish system cannot for a moment be compared with that of America. While each of the colonies, in order to favor a privileged class by immediate gains, exhausted still more the already enfeebled population of the metropolis by the withdrawal of the best of its ability. America, on the contrary, has attracted to itself from all countries the most energetic element. which, once on its soil and, freed from all fetters, restlessly progressing, has extended its power and influence still further and further. The Philippines will escape the action of the two great neighboring powers all the less for the fact that neither they nor their metropolis find their condition of a stable and well-balanced nature.

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eary Spanish

It seems to be desirable for the Filipinos that the above-mentioned views should not speedily become accomplished facts, because their education and training hitherto have not been of a nature to prepare them successfully to compete with either of the other two energetic, creative, and progressive nations. They have, in truth, dreamed away their best days.