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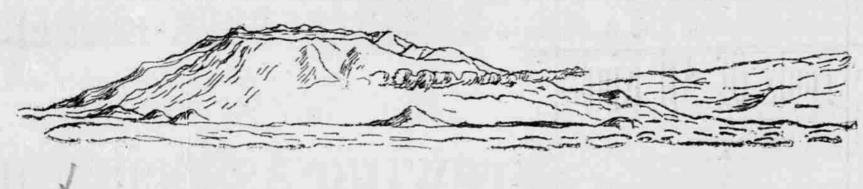


Admentiser.

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HONOLULU, HAWAIIAN ISLANDS, WEDNESDAY, SEPTEMBER 14, 1892.

PRICE 5 CENTS



MAUNA KEA, HAWAII, (AS SEEN FROM WAIMEA), 13,820 FEET HIGH.

leave of absence for the purpose, and feet. to lend the necessary instruments, geese and wild ducks are found in affected by shortness of breath, but the central hills and a little over 13,000 the "Middle Ground." The mon two of them had a severe attack of feet in elevation. Here, as at other of whom Prof. Dana is one, offered goose has not yet arrived there. mountain sickness before supper. places on the plateau, ancient graves to apply its income to the same Wild cattle and boars are still nu- After suffering extremely for thirty- are to be found. In the olden time, object. As this sum, however, was insufficient, a correspondence was opened as early as 1889, with the opened as early as 1889, with the Hawaiian Government Survey, which promised to assist in transportation. promised to assist in transportation. and to furnish at least one assistant been accidentally introduced from the sistence of their deceased the camp, taking the mule with them. The writer was hors do combat the day after the ascent with an old fashioned sick headache, but had thermometer fell to 14° and stood at the camp, taking the mule with them. The writer was hors do combat the day after the ascent with an old fashioned sick headache, but had thermometer fell to 14° and stood at the camp, taking the mule with them. The writer was hors do combat the day after the ascent with an old fashioned sick headache, but had the camp, taking the mule with them. The writer was hors do combat the camp, taking the mule with them. The writer was hors do combat the camp, taking the mule with them. The writer was hors do combat the camp, taking the mule with them. The writer was hors do combat the camp, taking the mule with them. The writer was hors do combat the camp, taking the mule with them. The writer was hors do combat the camp, taking the mule with them. The writer was hors do combat the camp, taking the mule with them. The writer was hors do combat the camp, taking the camp, tak to record the observations, in con- New Zealand, viz., the Scotch thistle no further trouble from that cause. sideration of the value of the mag-

netic and latitude work. inal design. He decided to make Hawaii. complete series of pendulum, lati-

E. D. Preston, astronomer, Mr. W. ascent could not be imagined. Mr. great and he made the most of it. stone flakes and chips some 60 feet Alexander, surveyor and quarter- pack train, and had the caravan and pendulum observations were by several hundred unfinished axes master for the party, and Messrs. loaded and set in motion by 7:45 A.M., made, besides the observations of the are piled up just as they were left by

generous acts. The appearance of After riding nearly two miles due tune and valuable. On the 22d a the late Dr. Hillebrand found a the place has been greatly changed east from the ranch, we turned to the short base line was measured with a curious idol, which is still in the posby the groves of cocoanut and alga- north, gradually ascending through steel tape and a minute survey made session of his family.

2600 feet above the sea, where we enjoyed a complete change of climate, and had glorious views of from 10,000 feet. The Raillardia, ble up that huge pile of cinders in the three great mountains of Ha- apiipii, extends a thousand feet the rarefied air is a severe strain on waii. We could not help noticing, higher. The beautiful Silver Sword weak lungs. The pulse rose in one too, the evident fertility of the soil, (Argyroxiphium), once so abundant, case to 120, and in another to 150 and the neglected opportunities for is nearly extinct, except in the most per minute. The old trig. station, homestead farms. Only magnetic rugged and inaccessible localities. observations were made here, while we were preparing for the ascent of the mountain. Here we engaged our the mountain. Here we engaged our crater called "Keonehehee," 11,500 first time. The difference of height guide, hired our horses and part of our pack mules, and had our freight, edge of the summit plateau. Further summit was found by levelling to be Guide Through the Hawahan Isl. P. O. Box No. 480. ("impedimenta," as Cæsar appropri- to the southeast we were shown a about 45 feet, as it had been esti- and," is meeting with a steady sale ately called it,) carted thirty-five pillar of stones which was raised to mated in 1872. The highest point is both at home and abroad. Tourists and miles farther, half-way around the commemorate Queen Emma's jour- probably not less than 13,820 feet others visiting these islands should be mountain to the Kolaieha Sheep Station. We made this our base of op- 1883. The view fr erations in attacking the mountain, in order to dispense as much as pos- haps five miles in width, gradually ing, as it did, the three other great sible with the use of pack mules, on account of the heavy and costly in account of the heavy and costly in struments which we were obliged to carry. A wagon road made by the leads from Waimea around the western and southern sides of Mauna Kea. On the western side of the mountain it passes through a region which only needs more rainfall to make it a superb grazing country. The ancient forests here, as at Waimea, have been nearly exterminated, but a fine grove of mamma trees still survives at the Auwaiakeakua Banch. The manipale grazing cover the rim of a low crater. immensely to the value of the land.
At the half-way station, called Wai-kii, water tanks and a rest house have been provided for teamsters.
After turning the corner we skirted the desolate plain studded with velocities and three quarters in extent, and a rest house surrounded by an encircling ridge from 90 to 135 feet in height, except eating our lunch on the summit, we have desolate plain studded with velocities the famous lakelet of the windward side of the sum mit ridge and in the craters were several large patches of snow, two or three feet thick, composed of large crystals, like coarse salt. While the desolate plain studded with velocities and the famous lakelet of the sum with wall with the desolate plain studded with velocities and the famous lakelet of the sum with t the desolate plain studded with vol-canic cones that lies between the giant mountains of Hawaii, riding above the level of the lake at the After surveying and sketching at

THE ASCENT OF MAUNA KEA, HAWAII through loose volcanic sand amid time of our visit. The overflow has clouds of dust. Occasional flocks of worn out a deep ravine, which runs

and the gorse.

The plan would have been carried out last summer, if Mr. Preston had not been selected to co operate with Dr. A. Marcuse in carrying on a series of latitude observations of the highest degree of precision at Wai kiki for a year, beginning about the late of June, 1891. As is well known, 1st of June, 1891. As is well known, pack animals and a muleteer, and by ally between 60 deg, and 63 deg., but arrived about 11 A. M. Soon after-this laborious and delicate task was Mr. J. J. Muir, from Mana. Mr. when exposed to the sun on the rocks wards the fog closed in around us, by completed to the entire satisfaction Baldwin had visited the summit in it rose to 108 deg. The hygrometer and lasted till nightfall. We bid of astronomers, and the way was now 1890, and had afterwards made a indicated an exceptionally dry at open for the execution of his orig- valuable map of the central part of mosphere.

tude and magnetic observations at made on the morning of July 19th, rock moved into position to serve as "Keanakakoi," the Axe-makers' cave. the sea level, on the side of Mauna but an ambitious mule, which had the a stand for the pendulum apparatus. This is situated about a mile south Kea, and again on its summit; one honor of carrying the magnetic in- Such was the clearness of the air that of Waiau, and a hundred yards west important object being to determine struments, ran away in the thick fog, star observations were usually com of the trail, in a ledge of that hard, its specific gravity, and, as it were, to weigh the mountain. The stations oc six hours of searching. Fortunately expectation we found the trade wind cient Hawaiians preferred for their cupied were to be carefully connected no harm had been done to the instru-by survey with the triangulation of ments. Six hours of searching. Fortunately blowing as strong on the summit as stone implements. Here we saw the

E. Wall, his assistant, Prof. W. D. Haneberg now took command of the Complete series of magnetic, latitude across and 20 or 30 feet high. Near W. W. Chamberlain and Louis Koch. the guide riding in front, followed by barometer and thermometer, and a the manufacturers, when the arrival

still survives at the Auwaiakeakua bered over the rim of a low crater us a glimpse into the vast terminal for the shortest notic. Ranch. The manienie grass is grad-ually spreading and will in time add before us the famous lakelet of On the windward side of the sum-

through loose volcanic sand amid two most a deep ravine, which runs first to west and then to the southern side of the mountain, called "Wai Hu," is been described, yet a brief account of a late scientific expedition to its summit may be of interest to your readers.

The results of Mr. E. D. Preston's work on Haleakala in 1887 were so highly appreciated by scientific men, that the American Academy of Sciences recommended that a similar series of observations should be made on Manua Kea. It was also decided to include in the plans a series of magnetic observations at a number of important points in the islands.

The U. S. Coast and Geodetic Survey agreed to grant Mr. Preston leave of absence for the purpose, and to lend the necessary instruments,

Here Mr. Preston established an which we spent on the summit the third peak, east of Lake Waiau, and

A solid pier of masonry was built before 6 P. M., without any mishap, The first start for the summit was for the meridian circle, and a flat having stopped half an hour at it did below at Kalaieha.

The first station occupied was in the village of Kawaihae, near the sea, in a lot belonging to His Ex. S. Parker, to whom as well as to his agent, Mr. Jarrett, the party are indebted for many repeated kind and debted for many repeated kind and debted. The appearance of the control of the property of the summit plateau, in which Mr. J. Muir's assistance was most opportunity of the land acturers, when the arrival large number of interesting photomal photomatic points of view. In the meantime a top of foreign ships and the introduction of iron tools had ruined their trade. Around the entrance of the cave the top ographical survey was made of the summit plateau, in which Mr. J. J. Muir's assistance was most opportunity of the land acturers, when the arrival large number of interesting photomatic points of view. In the meantime a top of foreign ships and the introduction of iron tools had ruined their trade. Around the entrance of the cave the top ographical survey was made of the summit plateau, in which Mr. J. J. Muir's assistance was most opportunity and the introduction of iron tools had ruined their trade. Around the eleven pack mules and as many men of interesting photomatic points of view. In the meantime a top of iron tools had ruined their trade. Around the eleven pack mules and as many men of interesting photomatic points of view. In the meantime a top of iron tools had ruined their trade. Around the eleven pack mules around the introduction of iron tools had ruined their trade. Around the eleven pack mules around the meantime and the mean

The view from the summit was

ing down a steep slope of sand and cinders, 700 feet in height, to our cano House.

During the following night the thermometer fell to 13 deg. Fahr. We did not, however, suffer from cold, although the confinement of the blanket bags became rather irksome. A small kerosene stove was been burning all night which no kept burning all night, which no doubt helped somewhat to keep up the temperature of the air within the

Quails abound, and the mountain All of the party were more or less high rocky crater, a mile southeast of

18° at sunrise. After breakfast During each of the six nights the surveying party ascended the

farewell to the lake about 1:30 P. M., and arrived at the Kalaieha Station the Government survey.

The party left Honolulu for Kastood at 35 of Fahr. The fog cleared waihae June 25th, consisting of Mr. off early, and a finer day for the successful. The opportunity was stone flakes and chips some 60 feet The next morning the thermometer Of Mr. Preston's work it may lodged, their fire place, and remains

roba trees, that have grown up of a belt of country thickly covered with late, and by the formation of a groves of mamane.

On arriving at Kalaieha we learned the same day two of our men came that the pack mules had preceded measurements of precision have been made at so great a height.

Mr. Preston's final report will be looked for with interest by the scientific world, and will add another laurel to his well-earned reputation as a physicist and astronomer.

That popular work, "THE TOURISTS in possession of a copy of it. It is a perfect mine of information relating to the scenes and attractions to be met with

flice with L. A. Thurston.

several stations, we returned, slidcamp, where a repast awaited us, that reminded one of the Hamilton House. It is enough to say that our worthy chef de cusisine was Louis Koch, well known to former guests of the Hamilton and later of the Vol-

W. D. A.

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