THE KRAKATOA ERUPTION

VIVID DESCRIPTION OF A MOST TERRIFIC DISASTER.

Human Race Since the Deluge-Two a half miles. Hundred Thousand Lives Supposed to Have Been Lost-An Interesting Account by an Eye-Witness.

The vicissitudes of my life have been such that not until now have I had the leizure or the disposition to describe the most terrific disaster known in the history of civilized man, of which I was an unwilling witness. I left Paris, where I studied my profession of civil engineer after the Franco Prussian war, and going to Java for the Dutch government, I surveyed Borneo (except Sarawak), Lombok, where there has so lately been fighting, and New Guinea, that land of almost virgin mystery. To those familiar with the remote corners of the world, there is food for thought in the statement that I ran a line, in 1874, from Fly River, at the south end of Papua, to Gelvink bay, on the north, the first white man to traverse much of the interior of that great unknown island.

The spring of 1883 found me pursuing my profession in Batavia, the chief city of Java. Since I had first seen the island in | which was now emitting the 1871, I had been back to Europe several times, and had traversed a good portion of and pulverized pumice and steam which iarized myself with the Java archipelago. which are marked by funeral monuments along the progress of mankind. It has come in my way in the past several years to learn much that was interesting about the great storm which drowned hundreds along the coasts of Great Britain in November, in 1893, and about the tremendous explosion of dynamite in the harbor of Santander, by which, at the beginning of were stricken dead and many thousands were wounded. I have heard from eyewitnesses reports of the sudden flood in the 1894, by which a thousand men, women, and children were swept to death out of their boats. The bursting of the dam at Charkkupre, in India, in the same month, dismayed the world with the tidings of hundreds drowned or whelmed beneath a land slide. The plague which carried off scores of thousands of Chinese the same spring was reckoned an international peril. But none of those things moved me, for I had been an eye-witness of the most stupendous calamity to the human race since the deluge the cataclysm of Krakatoa. I lived to tell the tale, and if there was any other civilized spectator on the spot, of those dreadful scenes, I have not yet heard or read his story. Captain Bartlett, of the ship Ice King, which sailed through the Straits of Sunda shortly after the upheaval, reported many interesting observations, and a committee appointed by the British Royal Society investigated and made an elaborate report. I saw what I shall describe.

About eleven o'clock on Sunday morning, the 13th of May, 1893, the trouble began in the island of Java. All Java, Sumatra, and Borneo were convulsed. It was as though war had been declared underground. The surface of the earth rocked,

HOUSES TUMBLED DOWN,

had ejected their roots. I saw a tree fully | would fly into fragments far up over our five feet in diameter crash up into the air heads, it seemed, and sift their burning and fall supine. This was near the government buildings, on Waterloo plain, where | feet from the edge of the crater, the ascendthe barracks, near the parade-ground, were ing column was severely shaken. The sun shone bright, the morning was still unclouded, and when we the group of islands, but nothing worse one and a half miles in diameter. than an earthquake was expected, and an earthquake was no rarity in those days in | seek safety on the water. As I started to that part of the world, nor is it yet.

no sign of cessation. Day and night the The bottom of each footprint was red, aglow subterranean convulsions continued. The with fire from beneath. Here and there earth quivered constantly, from its depths on the surface, I saw the tracks of a pig's there seemed to rise strange cries and feet, the creature evidently panic-stricken hollow explosions, with that all-pervasive in its race for life. Every human being,

about thirty miles west of Anjer, in Sunda | deck I photographed that awful scene, the strait. The two cone-shaped peaks of fire pump playing all around me the while, Krakatoa were familiar landmarks to all wetting down the rigging, keeping the could be seen for miles in any direction. I keep her from taking fire. That had been was requested by the Dutch government, necessary since daylight. through the vice-admiral then at Batavia, to be off to the scene of action. At four roar from the great flame sounding contino'clock that afternoon, I started with a | ually in our ears, the glare from its fires party on a special steamer from Batavia, to I gradually dimming in the distance. That take scientific observations. About mid- | roar and that glare lasted steadily day and night, we cleared St. Nicholas Point, which | night, until the 12th day of August. By is the extreme northerly extension of the that time everybody had gotten used to island of Java, next to the straits. As we it and nobody spoke of it any more. We rounded it, we saw ascending from Krakatoa supposed Krakatoa would burn itself out about fifty miles away to the southwest, an after a while and rest again, perhaps for immeuse column of fire and what appeared | another hundred years. to be smoke. The sky was yet clear, for the most part, but we could see no apex to residence in the city of Anjer, on the this column, whose composition changed as | Strait of Sunda, west of Batavia. It had; we watched it, steaming all the while with its surroundings from Merak Point to toward the island. First it looked like Bodjenegoro, about sixty thousand inhabiflame, and then it would appear to be steam | tants. I lived in a villa, a mile back of and again take the semblance of

A PILLAR OF FIRE

inside of a column of white, fleecy wool. In another instant these trailing, whirling masses of wool would hang from the very empyrean itself. All the while we heard the sullen thunderous roar which had been a fearful feature of the situation ever since Sunday morning, and was now becoming louder.

The terrifying character of the scene of which we were now in view can be imagined with difficulty. The ocean was as smooth as a mirror and our steamer moved ahead

with ease, at slow speed. But ever growing the veranda of my house smoking a cigar miles away it was necessary to burn lamps in intensity was the illumination spread and taking my morning cup of tea. The all day, and in the cities of Batavia, Samanortherly peak straight up to the sky, of the native houses, I could see the fishing- were needed out of doors, and gas indoors, now and then with dark masses, constantly fishermen themselves being on shore at My investigations showed that there was wrapped in and now entwining the furious rest, as they did not work that day. The one hundred feet of water where the city smoke which I have described as looking and a moment before I had heard one of my villa, and that the coastline was just out." like wreaths of wool. The diameter of the servants moving around in the cottage. one and one-half miles further inland. It is The Most Stupendons Calamity to the that column I should put down at one and As my gaze rested on the masts of the little there that the city of New Anjer has been

usual in that country, and, without a word, | that they were all moving in one direction. | graph station. Part of Prince island, about watched, fascinated. The din was gradually | In an instant, to my intense surprise, they | one-third of it, I should say, was obliteratincreasing, until we could with difficulty all disappeared. time, immense fragments of incandescent to where I could command a better view, far as St. Nicholas Point. It seemed to stone would be hurled up from the crater, and looked out far into sea. Instantly a me to be a very moderate estimate, that three or four hundred feet into the air, great glare of fire right in the midst of the one hundred thousand lives were lost in when they would burst with a loud explo- water caught my eyes, and all the way Java, and one hundred thousand more in sion. The hours passed quickly and dawn across the bay and the strait, and in a Lombok bay, on the coast of Sumatra, just approached.

through the straits. It was the higher peak | feet.

VAST COLUMN OF FLAME

South Africa. I from time to time famil- seemed likely to burn away the heavens oned to some one, any human being, to a particles, which for weeks floated in the air. all in knowing how to go at it. Even my into the edges of this peak so that it was As a student of history, I had made myself | now the lower of the two. In 1880, there acquainted with those terrible casualties | had been earthquakes all along the shores of the straits, but Krakatoa showed no signs of awakening.

were, it is my belief, openings into a stunned me, and it was a minute or two common submarine storehouse of volcanic before I realized that when once more I energy. Krakatoa had been quiet until turned my eyes toward the bay, I could see now for a hundred years, as far as I could nothing. Darkness had instantly shrouded

with associations as lasting as those of St. | the falling of heavy bodies, and the creaking Helena or Elba, was eight or ten miles long disruption of masses of brick and timber, and four miles wide. A few fishermen most of all, the roaring and crashing of the same month, hundreds of Spaniards lived on it, and on its mountain slopes breakers on the ocean, were audible. The remarkably fine rosewood and mahogany city of Anjer, with all its sixty thousand trees were found in abundance. Some of people in and about it, had been blotted them were eight or ten feet in diameter, too out, and if any living being save myself big to cut. When we landed on the coast remained, I did not find it out then. One Yang-tse-Kiang, at Han-Yang, in May, opposite to that along which the river of of those deafening explosions followed sulphur was discharging, we saw no signs another, as some new submerged area was of those inhabitants. The waves were suddenly heaved up by the volcanic fire washing the sandy shores. Four or five below, and the sea admitted to the hollow feet from the water-line rese a straight depths where that fire had raged in vain bank of powdered pumice-stone which was for centuries. rained down constantly from the clouds that surrounded the column of fire. Every. thing human, everything natural, everything suggestive of life or growth had been I ran back up the mountain side. My annihilated from what had been a beautiful subsequent observations convinced me that landscape. A hideous mask of burning store and steaming ashes had been deposited over all. Trees three feet thick, and which must have been fifty feet high, were already nearly buried, their branches twelve inches thick sticking out here and there, Several of us landed, and I began walking inland. We sunk knee-deep in the loose pumice; it was the consistency of snow and hot. Our feet began to blister.

I climbed painfully up, walking inland in the direction of the crater, which desired to measure with my sextant. At of the configuration of that part of the the third observation I made, I saw something trickling across the mirror of the had melted and run away.

I was more than half a mile now from the edge of the crater. My skin was roasting and cracking. The roar of the flames was so loud as to drown any other imaginable noise, save the detonations, and big trees fell out of the earth, as if it now and then, of the bursting stones which wheeled mail-cart. This carrier's vehicle dust upon us. For the first three hundred

ONE UNIFORM WHITE-HOT MASS

telegraphed over to the other islands and of clear flame of dazzling brightness, of such learned that their inhabitants were safe, scorching energy as to blast us into a cinder we felt reassured at Batavia. The same did we dare nearer a proach. This phenomena were in progress throughout column of flame was, as I have said, about

I turned to retrace my footsteps and put my feet mechanically back into the But this particular earthquake showed prints they had made going up, I shuddered. ague, which now began to shake my nerves. every animal, every bird on the island of Thursday there came a telegraph from Krakatoa must have perished by that time, the city of Anjer, ninety miles away, on and if we had not increased our speed, the the northwest coast of Java, that a volcano | same fate might have been ours. At last had broken out on the island of Krakatoa, we got aboard again, and from the steamer's voyagers in those waters. They were double awnings moist, and saturating the clothed with luxurious vegetation, and side of the ship; it was the only way to

The steamer returned to Batavia, the

In the meantime, I had taken up my the city, up the mountain slope. The city lsy along the margin of the sea, the houses, of brick and bamboo, being nearly all one story high. Along the coast, at each side of the city, clustered groups of fishermen's huts, and their fishing boats by the score lay at anchor a short distance from shore. Over the low roofs of the city I could see far out over the strait to where the Krakatoa monster, thirty miles away, was belching out his

AWFUL AND NEVER-ENDING ERUPTION.

from this lurid column, rolling from the scene was a perfect one. Across the roofs rang, and Soerabaya, the carriage lamps beyond the limits of human vision, flecked smacks lying in the bay at anchor, the for some time. boats, of which there were several score in built, and where all vessels for China, Japan, We had remained on deck all night, as sight, I became suddenly aware of the fact and Australia report to the regular tele-

hear each others' voices. From time to I ran out of the house, back, up higher, including the fishing villages, was gone as straight line of flame to the very island of opposite. Several entire towns were washed The sun rises in those latitudes at six Krakatoa itself, the bottom of the sea away there. In Lombok bay the pumice. o'clock. As its rays fell on the shores of seemed to have cracked open so that the stone floated so thick upon the water that ing.' Krakatoa, we saw them reflected from the subterranean fires were belching forth. On it reached a height of thirty-feet, and surface of what we thought was a river, and either side of this wall of flames, down into steamers could not penetrate it; so that it we resolved to steam into its mouth if this subaqueous chasm, the waters of the was some time before the news of destrucpossible, with a view to disembarking, strait were pouring with a tremendous tion along the Sumatra shores was received When we had approached to within three- hissing sound, which seemed at every in Batavia. The Brooklyn, an American quarters of a mile of that shore, we sudden- moment as if the flames would be extin- man-of-war, came steaming into Anjer two ly discovered that what we supposed was guished; but they were not. There were days after, to report that from her decks day." a river, was a torrent of molten sulphur. twin cataracts, and between the two cat- thousands of broken bamboo houses, car-The smell almost overpowered us; we aracts rose a great crackling wall of fire bonized bodies, and floating masses of steamed away and made for the other side | hemmed in by clouds of steam of the same of the island, turning our bow to the cottony appearance which I have spoken of time, the northwest coast of Java was fooling around for a week or two is all windward. The lower of the two peaks on before. It was in this abyss that the fishing buried under six or seven feet of ashes. Krakatoa, had a crater, or cavity, for there boats were disappearing even as I looked, A year later, an immense lump of pumicewere no real craters there, which as long whirling down the hissing precipice, the stone, undoubtedly cast up by this explosago as a century since had been reported in roar of which was already calling out ion, was found floating in the Mediterranactive eruption by a German vessel passing excited crowds in the city of Anjer at my ean, covered with barnacles. Pulverized

The sight was such an extraordinary one that it took away the power of reason, and been held in suspension in the atmosphere without attempting in any way to explain for years. The atmosphere over the Ameri- he interrupted, "while a man can do the to myself what it was, I turned and beck- can continent was filled with minute same amount of work in two hours. It's servant we will say, to come and see it. It would be folly to say that human intelli. mother, whose spirit is now in Heaven, had Then in a moment, while my eyes were gence will ever arrive at the accurate turned, came

AN IMMENSE DEAFENING EXPOSION

which was greater than any we had heard All the craters in that part of the world as yet proceeding from Krakatoa. It the world. Through this darkness, which This island, which will live in history was punctuated by distant cries and groans,

> The awful surge of the maddened ocean as it rushed landward, terrified me.] teared I would be engulfed. Mechanically, at the first explosion the ocean had burst a new crater under Krakatoa. At the second explosion, the big island, Dwers-in-de-Weg. had been split in two, so that a great strait separated what were the two halves. The island of Legundi, northwest of Krakatoa, disappeared at the same time, and all the west coast of Java, for fifteen or twenty miles, was wrenched loose. Many new islands were formed in that throe, which afterwards disappeared. A map which I made not long afterward shows the change

I waded on inland in a dazed condition, sextant and discovered that the quicksilver which seemed to last for hours. The high road from Anjer to the city of Serang was white, and smooth, and easy to follow, and I felt my way along it in the darkness. Soon after I began this singular journey, I mountain toward Anjer with his twowas an iron box on an axle, running on two wheels, pulled by four ponies. I told the man what had happened and tried to get him to turn back, but he would not. reached the city of Serang about four or five o'clock that afternoon, after having

made one stop at a house on the way. This residence loomed up on the side of the road, offering me, apparently,

A WELCOME REFUGE.

I rushed in thinking to find a relief from the intense heat under the shelter of its roof, but through the tiles of the flooring, little blue flames were flickering as I entered, and the house itself seemed like a furnace. The subterranean fires were at work even there, on the side of the mountain. Under the mass of flooring or masonry, I could not distinguish which, I saw the body of a woman in native garments. the bell in the tower would naturally I rushed out horrified from this burning tomb. It was the residence, I learned afterward, of Controller Frankel, an officer food for some little time until they made of the government ranking immediately the discovery that they could obtain it by after the governor himself.

I staggered blindly on my way. When I reached Serang, I was taken into the garrison and nursed for two days. I was supposed to be a lunatic. I started up in my sleep a half-dozen times in the first night, uttering cries of terror. I was soothed by drugs and enabled on the third day to go to Batavia. Even then the extent of the calamity was not known in Serang. At Batavia I took the steamer for

On my return, some time afterward, to the scene of this frightful experience, I of the explosion. On Merak Point where the government had been blasting rock, were an engine and several boilers used flattened out like sheets of paper. In Lombok, on the southeast coast of Sumatra, white ashes all over the island of Java.

THE GROUND WAS HOT

ed, and the entire northwest coast of Java, pumice-stone had been observed. At that pumice and ashes are known to have been carried many thousand miles, and to have two women-" solution of the causes of this dread event, or

Gown with Double Skirt.

in the Cosmopolitan.

some camel's-hair gown with a double skirt



and accentuations of velvet ribbon exceed ingly becoming .- Toronto Ladies' Journal.

Intelligent Fish.

Fish have many times been taught to perform tricks and it would appear as if met the native postman coming down the they had much more intelligence than is once had two brook trout in a small equarium in his private residence that would jump out of the water and take flies held between the forefinger and thumb, and would also ring a little bell when they required food. They would also leap over little bars of wood placed about two inches above the surface of the water.

It was a very simple matter to teach the containing a tiny, sweet-toned silver bell, was fastened to the ironwork of the equarium, with a piece of string attached to the tongue of the bell extending into the water where the trout were. On the loose end of the string an insect or other tempt ing morsel was placed, which the fish would at once seize, and pulling the cord, tinkle. After this had been repeated several days the fish were left without pulling at the string to which the delicacies had been attached. This they did ever afterward when they were hungry, and as that was nearly all the time, the little bell was constantly tinkling as the fish were continually pulling the cord. It was quite a pretty and novel sight.

Enamelling Process for Bollers.

The proposed plan of preventing the in crustation or corrosion of boilers by means learned further particulars of the force of a certain enamelling process has for some time engaged the attention of engineers, and favorable results are said to have for compressed air. All of these containing attended its use. According to the account compressing air, had been hurled against given of this methed, the interior surfaces the walls of the quarry, and absolutely are coated with a deposit in the form of a smooth black fim or enamel, similar to an a wooden man of war belonging to a Dutch electro deposit thick enough to protect me a week's work to clean the furniture Government, and two barks of two or the metal underneath from corrosion, and and carpets." three hundred tons each, one of them so thin that the boiler loses none of its loaded with salt, had been thrown one steam generating power; the application is papers ?" hundred and fifty feet up the mountain entirely simple, the material employed beside into the trees by the tidal wave which | ing injected into the boiler through a cock | immediately followed the explosion. For of lubricator pattern at such times as de. | ing to get a divorce?" days thereafter there was a thick coat of sired, the surface below the water level thus becoming coated with the enamel. It and crumbled to the touch. Every leaf by acids, protects the boiler from the lawyer seeing your lawyer, alimony, custody and bit of vegetation had been consumed, corrosive agents contained in almost if not of the child, put up job to kill him off, etc., and every creeping thing and living crea- all waters, prevents incrustation, does not pay no attention to him, as he will not be It was Sunday morning. I was sitting on ture blasted and burned up. Six hundred harm the boilers, and is but of slight cost, in his right mind for the next ten days !"

MR. AND MRS. BOWSER.

"I wish," said Mrs. Bowser as she helped Mr. Bowser on with his overcoat the other morning, "I wish you would drop this poscommingling torrent of volcanic dust and birds were singing in the grove at my back of Anjer had been, so short a distance from tal card in the box on the cerner as you go

> "Um!" replied Mr. Bowser as he received it. "Who is Mrs. White of 172 Larkins

> "I want her to help me clean house for hree or four days." "Clean house, eh? How many times do

> you clean house in a year?" "In the Spring and Fall. What's the

> Mr. Bowser removed his hat and gloves and overcoat in a very deliberate way and then replied :-

> "We don't want Mrs. White of 172 Larkins Avenue to assist in house clean-"But I-I-want-"

> "And we are not going to have this house turned wrong side out for a couple of weeks.

> Not being very busy at the office, I'll do all the work for you this forenoon." "Why, no one can clean house in half a

> "Can't eh? We'll see about that. I'll get

my old clothes en and show you a trick or two about housecleaning. This idea of nonsense." "Mr. Bowser, please listen to me," she pleaded. "All the furniture must be rub-

bed over, the pictures taken down, the woodwork wiped, the carpets swept with salt and the ceilings brushed. It will take "It will take two women two weeks,"

no method in housecleaning." "I-I think we'll let it go till Fall," even form a fair idea of its tremendous stammered Mrs. Bowser.

"No, we won't. I'll be with you in circumstances. - Jean Theodore van Gestel, five minutes, and if we don't have this house shining like a new dollar from top to bottom before noon I'm no hustler."

"But-" "That will do, Mrs. Bowser; that will The neat little figure is wearing a hand- do," he said as he turned on her. "I own this house. I run this house. I am the head of this family. I was helping to clean house before you had cut your first tooth. I'll be down in five minutes and begin on the parlor."

When he came down, after getting into his old suit, the cook informed him that Mrs. Bowser had run across the street to see a sick neighbor, but that he could go right ahead with his work. She brought him up the stepladder, and as he stood it in the middle of the parlor and spat on his hands and looked around he chuckled :-

"I'll say thirty minutes to clean this room spick and span and give the old lady

a surprise party !" He seized the sofa and rushed it into the back parlor, followed by the chairs and stands, and in seven or eight minutes the floor was clear. Then he placed the stepladder to take down the first picture. He had just litted the wire off the hook when the ladder slipped, and there was a crash, and a smash, and a jingle which brought the cook up stairs to find Mr. Bowser lying in a heap on the floor and to ex-

claim: -"Goodness to mercy, but I thought the whole house had fallen into the cellar !

How did it happen, Mr. Bowser." He slowly got up, looked from the stepladder to the floor and felt the back of his

head and firmly replied:-"I stepped off. Bring me salt, and a

broom and a rag." By the exercise of due caution he got the other pictures down without accident. The girl brought the things and stopped for a moment to say :-

"Nobody would iver suspect that ye knew how to clane house so beautifully. Don't them winder curtains come down attributed to them. A gentleman we know before you swape and dust, and shan't I hold the ladder while ye climb up ?"

Mr. Bowser said he could manage alone, and the cook retired to her kitchen. Mrs. Bowser had said the carpets must be swept with salt. The cook had brought a pail holding six quarts, and he sowed it all on to the last ounce to make a good job of it. She had said the furniture must be rubbed. Hehunted around and found a bottle of sewing machine oil, thinned it down with witch hazel and went over every piece of furniture in six minutes. All the window curtains fish these tricks. At first a little tower, needed was a little dusting, and getting a firm grip on the broom handle he proceeded to pound and whack until satisfied that they were thoroughly cleaned.

The cook came up with a feather duster, and Mr. Bowser decided to begin his dusting on the mantle cabinet. He placed the stepladder and climbed up and lifted the ornaments with one hand and worked the duster with the other. He had mentally decided to finish with the cabinet in just one minute, devote two minutes to the ceiling, two more to sweeping the carpet and 30 seconds to running in the furniture, when he lost consciousness. He had a faint recollection of seeing the parlor floor suddenly jump up six or eight feet, and of feeling that he had been hit, but he wasn't really sure of anything until he heard the voice of the cook saying :-

"Don't blame me, ma'am. The Doctor was not at home, and I had to wait I5 minutes."

Then he heard Mrs. Bowser inquiring:-"Doctor, do you think he will be a cripple for life ?" "it's hard to say," replied the Doctor.

"He struck on his head and came down with his legs bent up under him, and the spine may have been badly injured. What on earth was he prancing around on top of a stepladder for ?"

"He was doing housecleaning. Poor man! I can't lay it up against him that he's nearly rained my curtains, broke a chair, smashed the cabinet, destroyed nearly all the breakable ornaments and has given

"Is this the Bowser I read of in the news-

"Always blaming his wife and threaten.

"Well, I'll do all I can for him, but he's is claimed for this process, among its various been served just right! Keep him as quiet advantages, that the enamel is impenetrable as possible. If he says anything about his