HOW CORAL REEFS CAME


 Somo 10 at romening Fut
to hit home in Cambridge after $\mathbf{a}$ five moonles' 'rip to 'the iilands of the Pxesifo.
It mas made on the Yaralla, a twin-sere" steameriof about 400 tons, and there was
fall ort-fit of dredging, sounding, and deep
 day betore leaving Cambriage tor the Paciific neme hat arrived that the expedi-
tion of Prot. D.s.id of the USiveraity of tion of Prof. D.vid of the USivieraity of
Sydner bad bored inot the atoll ol Funatati to the depth of nearly 600 feet, the bottom being still in coral. But later experienceral
would seam, to iodicate that A general theory,o the tormation of of mis is a Itar cemoved ase ver. Pror thit imprestion that me mere to visisit a characteri tic ates a
subidene. reef queetion. states ost ther itis is imppesible to the Fiji to illustrate tne gridual changes brought about by eubsidan:e, which trine-
 - circularar reef rimp, and finall/ to one in
 iolle promied to be an admirable loce lion tor boriog and ceuting the question My yurprisio ens greatst therfforo, to tind bout 50 feet thick and 120 feet above th level of the sea, the base of the reef being underlaid byj what is locally called sos
stone, probably tratififed volcanic mud. -But the traces of extensive elevation are I found the islands oa the rim of the atol of Negele: Levu to consist entirely of coral rock elevated to a height of over six $y$
feet on the larger island. In that at Vanua Moalvu the northern line of
 raised by a central volcano mass of tha main island to a haight offfion 500 to 600
feet. On the south of the main ilend are much lower. \&At Mango the vartical which. Ccrop out at the sea level. At higb, and at Lakemba about 250 . On the island ot!'Aiwa the elt vatt d reet is fully the Yangasa group it attains a thic znees ot from 240 to 290 fest, and fiaally, on Ongea it attaing; a thickness of rearly 300 feat,
and at Falanga 360 . At Vatu Leile, and at Falanga 360 . At vatu Leile,
the mot weaterly island wo ex manind,
the elevated $i$ reet forming the islonis 110 teet thick at its noothern extremity Islands the ohape of the atollis and of the barriod preceding our onn. The is ands of the whole group have beea elevated, sn 1
have, like the norithern part of Queensland remained nearly stationary and exposed to great and prolonged denudation and
erosion, which have reduced the islands to theiripresent beight, the platforms upo which the barrier roof corals have grom being merely the flats lett by the denud reater siza than that now lett, hile tolls are similar flats from the interior o hich the islande, have been eroded, sidy scoured by the action of the sea, ths i cessant rollers pouring a hage maso water into tho lagoon, which coading in:o it. 'In the Fiji Islands the atolls and Ioland or isetes, surrounded in part or wholly by barrier reeta, have not beea formad by to ral ioland, as io claimed by Dana and D vin. The Fiij Islands are not situsted, but on the contrary, they are in an ares lands and atcl's of the Fiii group. Wiit's is $I$ the age of the elevated reef of the and position show it to be of considerable age. probsbly antecedent to the proesent
period. In many ways it resembles some of the late tertiary elevated lim'stones which I have seen on the northera and southern cososts of Cuba. She great thick ness which the elevated coral reets attain
in thin group, at, least 800 feet, also shows that therlmay hava been deposited originally during a period of auboidence ta tank
place in our opoch or which could have had any effeet in ohaping the ou line of the ielands of the Fiji group and their accom
panying reefs.
 hasizza what has may been sid on onlten onp. that
there is no general theory ot the formation
ot of coral reete, either batrier or atolils, ot
univeran universal application. Eas diatriot mus
be exsmined by lteelt-at least such bas
been been my experience in Farida. in thy
Bermu Ias. in the Basams, ia Cuba, in

 barrier reets by subsidence is not appli.
able to the Fij Istande, notwithatandig.
tha boring at the boring at Funatati by Prol. David ot
the Univerity of Sydey. In all the
tocaltiees that I have visited the coral reets




 plained on the theory that they have been
lormed upon the eroded ummmits or rims lormed upon the eroted rim of the volcano
of exinint craters the
having been eroded either to o continuous having been eroded either to a continuous
fit or to flatosp ratad by deepper pasages
torming entrancus to the inclosed lagoons. The great variety of canses which hav ognomy of the reets and atoliso of Fiji shows
ogho imposioibily of asoigning any one
the
tetor like subsidence tor inotanoe, as is
 aure for the tormation of the many differbe tound in the Fiji group."
SUFFRRING VANQUISHED

 Genern1
the Lighte $t$ work.
Yrom the Acadien, Wollville, N. s.
One of the most prosperous and intelligent tarmers of the villoge of Greenwick
$\mathrm{N} . \mathrm{S}$, is Mr. Edward Manning. Anyone in: Smate with Mr. Manning knows him as a
man of strong integrity and veracity, man of strong integrity and veracity, bo information which he gave a reporter
the Acadien, tor publication the other day During a very pleasant ioterview he gave the following statements of his severe sutlering and recovery:-"Two yeirs ago last September,' said Mr. Manning, I had not beea feeling well for some time
previous to that date, having been troubled previous to that date, having been rooility
with oleeplessness and general debility. My constitut oa seemed completaly run
down. Beginning ia the small of my ba $k$ down. Begianiog in oum hip, where
the pain soon passed into my hip, is rm sined without intermission, and I
became a tercible sutferer. All winter long 1 was acir:ely able to do any work and in mas only with the acutess of suffrring thas
I mansged to hobble to the bara each day 1 mansg ged to hobble to the ara eschas.

to do my chores. I appealed to medical | men tor help but ther tailed to bring any |
| :--- |
| relief. At last I decided to try $\mathrm{D}_{c}$. W.I |
| . | liams' Pink Pillo and with their uee came quite thres boxes when $\Gamma$ began to teel de ciledily bettor. I coatiouad u uiag them un til twelve boxes had been consumed, when ny complete recovery marranted me in dicontinuing their use. I hava never felt

better than since that time. My healt seems to have improved in every way
Daring the past summer I worked ver hard but have teli no bad effects. Th gratitude 1 teel to Dr. Williams' Pin
P.lls, none but thosese who have suffered have and been cured can appreciate. An Analyoie shows that Dr. W liams' Pink Pills contain in acor
densed form all the elements necesary to kive new lite and richness to the blood an
 motor atexias, partial paralycis. 8t Vitus dance,
nervous heasdachs, the atter effecto of la-

## Wrangit <br> For Table and Dalry, Purest and Pa

$\left|\begin{array}{l}\text { grippe, palpitation of the heart, nervo : } \\ \text { prostration, all diveasees depending apon }\end{array}\right|$ pitiared humore in the blood, suob as
sorofule, ctronic orypipelas tete. They are alvo a specific for troubles peculiar to ade all forms of weakness. They build up the blood and restore the glow of health to pale and shallow cheeks. In men the
effect a radical cure in all cases aribing effect a radical cure in an coske, over ex Irom mental worry, overwork,
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confidential secretary and adviser-in-sheet, cond been implicated in the Rhy house Plot, a conspirsay and plase Moomouth on the throne. He was put to the excruciating torture of then
thu nbkins, or thumbscrews, which be en thu nbkins, or thumbscrews, which be en
endured beroically, without contessing endured berothers.
implicating ortairs
Atter Carta
Atter Carstairs became the private ad-
viser of William he was presented with the
instrumrent by which he had been tortured.
 Yortitude neceessary to endure the terrib
torture without making a contesion
come sort, placed his thumbs in the some sort, placed his thumbs in the ma-
chine and told Caratairs to turn the screw.

 Cartairs turned the screw sharply. Tue
king cried out and when released asid
that under such phin he would bave conthat under such pain he would
fessed to anything, true or talse.

The reprehensible practice of kissing
abies, and thert by subiecting them to danger of contagion as well as to discomart and annoyance, is is os hard to suppress
hat one annot greaty marvel at the
at

 sur baby to eat onions ?
rit keeps people trom kissing him,
answered the father.

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