The more distant localities did not, of course, view the same edge as those nearer, but one which must have been rather nearer them and lower down. Thus they are subject to a positive and a negative source of error, which cannot be well estimated, but which fortunately tend to neutralize each other.

The resulting height is unexpected, but the records agree so nearly as to leave little doubt of its substantial accuracy. Backhouse's measurements were made merely for altitude and an hour later, but the cloud-shift was so slight that it has been included.

J. EDMUND CLARK.

A Dust Storm at Sea.

A FEW days ago, while returning to Tokio from the southern part of Japan, I joined the s.s. Yokohama Maru, which, whilst crossing from Shanghai to Nagasaki had passed through a curious dust storm. Small quantities of the dust were yet to be seen in sheltered corners of the vessel. The commander, Captain R. Swain, who gave me a specimen of the material, told me that on April 2, when about 95 miles west by south of Naga-saki (long. 128° E., lat. 32° 20′ N.), at about 6 p.m. the sun appeared quite yellow. The atmosphere was moist, and rendered everything upon the deck of the ship quite damp. precipitated moisture was yellowish, and as it dried it left an extremely fine powder. For two days previously the wind had been blowing west-south-west, or from China. Nothing was felt in the eyes, and if the ship had not been covered with yellow powder, the phenomenon would have been regarded as an ordinary but peculiarly coloured fog.

The yellow atmosphere was noticed during the afternoon of the

2nd. At midnight the wind changed to north-west—that is, from Corea. The probability, however, is that the material from Corea. The probability, however, is that the material came from the loess plains of China. In Nagasaki, which is 390 miles from the coast of China, a yellow sun was noticed on the morning of the 2nd; and during the day, whilst dust was being precipitated, the appearance of the atmosphere was compared to that of a London fog.

On April I there was a fall of dust in the neighbourhood of Nawa in Okinawa-ken, and on the 2nd dust fell in Gifu-the district where the recent great earthquake took place. The P. and O. s.s. Verona, which left Hong Kong on April I, experienced the same phenomenon as the Yokohama Maru, the vessel being covered with a fine dust, which, when suspended in the atmosphere, gave rise to so much haze that land was not seen until reaching Nagasaki. On April 3 a yellow sun was seen in Yokohama, but I am not aware that any dust was observed. Roughly speaking, it therefore seems that on April 2, at a distance of from 200 to 400 miles from the coast of China, there was a cloud of dust which may have been over 1000 miles and possibly 2000 miles in length. Dr. B. Koto, who examined a specimen, tells me that the particles are chiefly felspar, but there is a little quartz and shreds of plants. Tokio, April 23. JOHN MILNE.

Submerged Forest.

DURING a recent visit to an East Lincolnshire seaside place, Mabelthorpe, the remains of a submerged forest were pointed out to me plainly visible at low water. On closer inspection, the stumps of fallen trees, firmly embedded in the clay from one to twenty inches above the surface could be traced along the lowwater level. I should be much obliged if any reader could fix a date at which the forest was growing. Does it not prove a sub-sidence of land in the neighbourhood? M. H. M.

Carnivorous Caterpillars.

I SHOULD like to know if it is a known fact that some caterpillars are carnivorous, eating their own kind, and small ones of another kind? I have found on a lime-tree on our lawn, six

caterpillars, two of which have done so.

One of them has (though there was plenty of food, as I had only taken it from the tree a few minutes) eaten one of its own kind about three-quarters its own size; and later on in the day a small green looper (off the lime-tree), which was in the same box. A second has eaten two small loopers. The other three I only found to-day, and they are not as large as those which had eaten their fellows.

I cannot find a description of this caterpillar in "Das Buch der Schmetterlinge" (Lutz), which I use.

They are of a bright green, the colour of the young lime leaves, with a narrow white line down the back and along each

side half-way down, and a broader one lower down. Between this and the narrow side-stripe are three very small black spots; between the back line and the narrow side-line, are two black spots, to each segment. Each spot has a white edge. On the first two segments the upper two spots are one under the other; but on the rest are side by side. The three spots form an L, with the two lower ones very near, or on the broad side-line.

They have eight prolegs, as well as the two suckers at the back. They appear very irritable, and swing their heads from side to side when touched, and apparently nip other caterpillars

which dare to touch them in any way.

I may also mention that there are three very fine specimens of the Red Admiral (Vanessa Atalanta) in our garden to-day and yesterday.

JULIET N. WILLIAMS, Blackbrook, Bickley, Kent, May 29.

THE HURRICANE IN MAURITIUS.

THE devastation caused by the hurricane in Mauritius was so terrible that it was hardly to be expected the Observatory would be spared. We are glad to say, however, that it suffered no damage; and all meteorologists will congratulate themselves that the well-known Director, Mr. Meldrum, was able without delay to prepare an account of the storm. The account is printed in the special overland edition of *The Merchants and Planters Gazette*, May 11. We here reproduce it:—

" Saturday, April 30.

"The hurricane which raged for a few hours yesterday, April 29, has in many respects been unprecedented in Mauritius.

"Never till now has the island been visited by a hurricane at any time between April 12 and December 1. Hitherto the hurricane season of Mauritius has been supposed to begin on the latter and to end on the former day, and till yesterday there has been no exception to

"Nor was there any sign of danger till yesterday, when the barometer began to fall rapidly and the wind to increase to a heavy gale. The suddenness, rapidity, and extent of the changes which took place in a few hours are unparalleled in the annals of the colony.

"The following table will for the present suffice to convey some idea of the changes which took place in the barometric pressure and the direction and velocity of the wind from 9 a.m. on the 24th to 9 p.m. on the 29th:-

Day and Hour.	Barometer.		Wind.	
	Cor. and reduced to sea-level.	Fall or Rise per hour cor. for var.	Mean Direction.	Velocity in miles per hour.
	Inches.			
April 24			ECE 1C	
9 a.m.	30.029		E.S.E. $\frac{1}{2}$ S.	3
April 27			T 1 C	
9 a.m.	29.903	_	E. by S.	15
April 28			AT ID A . TO	
9 a.m.	.905	_	N.E. by E.	12
4 p.m.	.816	-0.003	N.E. by E.	14
9 p.m.	·850	-0.006	N.E.	12
April 29		0	NELE	
6 a.m.	.660	-0.018	N.E. by E.	22.4
8 ,,	.630	-0.029	N.E. ½ E.	34.7
9 ,,	:576	-0.063	N.E. by E.	35.0
10 ,,	'480	-0'094	$E.N.E. \frac{1}{2} N.$	40'0
11 ,,	:338	-0.131	N.E. by E.	52.0
Noon	'066	-0'251	N.E. ½ E.	68.0
1 p.m.	28.217	-0.532	N.E. $\frac{1}{2}$ E.	96.5
2 ,,	27.990	-0.213	N.	56.0
3 ,,	28.034	+0.048	W.N.W.	68.0
3 ,, 4 ,, 5 ,,	.250	+0.483	W.S.W.	112'0
5 ,,	29.059	+0.259	S.W.	82.0
9 ,,	719	+0.121	S. Wrd.	26.0