different meteors. This year, on August 10, in bright moonlight, I traced five meteors from $6^{\circ} + 37^{\circ}$, and the epoch and place fall near Comet II. 1780, August 14, $3\frac{1}{2}^{\circ} + 38\frac{1}{2}^{\circ}$, but the comet was only visible for three days after its discovery by Montaigne and others on Nowember 28, 1780, and hence the other is taigne and others on November 28, 1780, and hence the orbit is not likely to have been exactly determined. At the nodal passage the comet's orbit lies far within the orbit of the earth, so that an encounter of the earth with the comet-particles is only possible on the thesis of Weiss and Schiaparelli that "some part of the cometary materials repelled from its proper orbit by the sun in the form of the tail or other luminous appendage emitted by the comet near its perihelion passage extends to such a distance in its orbital plane as to intersect the orbit of the earth" (see B.A. Report, 1873, pp. 401-2). Ashleydown, Bristol, September 16

W. F. DENNING

The Zoological Record

In the third number of vol. iii. of the Niederländisches Archiv für Zoologie (Leiden: E. T. Brill), I published in German a "Catalogue Raisonné" of zoological works and papers that appeared in the Netherlands during 1875 and 1876. You noticed the appearance of this paper in your "Notes" (NATURE,

vol. xvi. p. 112).

The principal reason of my publishing this bibliography was my wish to make known in other countries what is done in the Netherlands in the zoological department. For the same purpose, about the end of May, 1877, I sent a copy of my paper to the Zoological Racord and addressed it "Solely to the Editor of the Zoological Record, care of Mr. Van Voorst, I, Paternoster Row, London."

Afterwards studying vol. xii, and xiii. of the said "Record," I found that about twenty of the papers recorded in my catalogue were not mentioned in these volumes. Of course this might have been occasioned by the unimportance of these twenty unlucky papers; but conscientiously comparing their value with that of the other sixty of my bibliography, and as far as possible in general with the papers mentioned in the Record I got the

conviction that this could not be the reason.

I feel a great deal of admiration, and at the same time of gratitude for the immense amount of work done by the contributors of the Record, and I quite agree with you (NATURE, vol. xviii. p. 485) that it would be to the everlasting disgrace of zoologists (not only of your tongue, but of all tongues) if its existence should be prematurely brought to a close. But only when I find in the Record as much completeness as possible, the use of it will spare me the endless trouble of looking for every detail over the totality of zoological literature.

Now I don't believe that in the case mentioned here (to secure

this completeness) much care has been taken.

P. P. C. HOEK September 19

Earth Pillars

SHOULD you deem the following of sufficient interest, will

you kindly insert it in NATURE?

A few days since I saw an interesting example of minute earth-pillars on the shore of the Hecht Sea, above Kiefersfelden, Inn Thal. In a cove to the north the beach for many yards formed a perfect forest of little pillars, whose height ranged from a quarter to three-quarters of an inch. On the top of most lay a small stone, a fragment of wood or shell; but some, which had lost their coverings, were wearing away. The shell fragments (from a Unio, I fancy) seemed to form the most complete protection, and these often fitted the pillars like helpsts; in fact, it required to great throthe of the investigation. like helmets; in fact, it required no great stretch of the imagination to fancy the whole a marching army, and the jutting wood fragments spears.
South Tyrol is by no means the only place in this country

where earth-pillars occur, though the Bozen pillars are probably the finest. Amongst others in North Tyrol there is a very interesting example of large earth-pillars on the Brenner railway, between Innsbruck and Patsch, on the right—going south.

JAMES H. MIDGLEY

Brixlegg am Inn, Tyrol, September 17, 1878

Indian Building Timber

In Nature, vol. xviii. p. 317, it is stated "much or most of the wood used in Peking in building houses, temples, and palaces is said to come from Corea;" it is further remarked editorially, "we think, however, our contemporary is in error in stating, without qualification, that 'the great wooden masts which

support the noble temples and gatehouses of the Imperial City of Peking (all enormous, beautiful, and enduring spars) come from

Having had some experience in the timber and timber-trees of Burma I am inclined to the opinion that this valuable timber "nan-mu" therein referred to will prove to be identical with the wood used for the same purposes generally over Burma. The wood is called in Lower Burma "Pyenkadoo," it has a wide distribution under a variety of names, according to the dif-ferent provincial dialects of the districts it is found in. Its great length of bole without branches, the different sizes at which it can be obtained renders it from its great durability, readiness to polish, and its variegated and coloured grain (brown mahogany colour) most suitable for the supports or pillars of "kyoings," or temples. It belongs to the natural order Leguminoseæ, specific name Inga xylocarpa.

Besides this there are several other woods highly esteemed by the Burmese for durability, and these chiefly are found amongst the Cassias and Dalbergias.

Inga xylocarpa has great toughness—a piece of three feet long by one inch square I find stood a breaking weight of 1,153 pounds; its specific gravity is nearly double that of teak and it does not float.

The objection to the introduction of the different ornamental and useful timbers of Burma is their toughness, hardness to work, and hence increased labour and wear of tools.

Whitby

[With reference to the question of the identity of the wood of the "nan-muh" tree with that of *Inga xylocarpa* we may point out that from material received at Kew the former has been referred to a Lauraceous tree, probably Phabe pallida. From comparison of the two woods microscopically they present something in common, the annual rings, however, are much more apparent in the "nan-muh" than in the "Pyenkadoo." This latter is of a dark reddish brown, extremely heavy, as described by Col. Benson, while the nan-muh is of a dull umber colour and much lighter in weight,—ED.]

OUR ASTRONOMICAL COLUMN

THE INTRA-MERCURIAL PLANET.—The particulars of Mr. Lewis Swift's observations during the totality of the recent eclipse, given in his letter which appeared in NATURE last week, are satisfactory so far as they afford independent testimony to the existence of an unknown body in the vicinity of the star θ Cancri, or in the locality where Prof. Watson, a few minutes previously, had observed an object which he considers to have been an intra-Mercurial planet. In other respects Mr. Swift's letter is indefinite and contradictory in itself. He tells us that he observed two red stars "with large, round, and equally bright discs," estimating the distance between them at about 7' or 8'; and, one of the objects being identified with θ Cancri, he intimates that the proximity of the other to this star enabled him to estimate its position with great exactness, especially in declination. But in a subsequent paragraph, where the place of the star is adopted from the Astronomer-Royal, the unknown object s fixed to a position which makes its distance from θ Cancri 30', or four times as great as mentioned previously. The place of the supposed planet, according to Prof. Watson was as stated last week in sight according to Prof. Watson, was, as stated last week, in right ascension 8h. 27m. 24s., and declination 18° 16' N.; and as the apparent place of the star at the time was in right ascension 8h. 24m. 39 9s., and declination 18° 30′ 19″, the distance between the two was 42′, on an angle at the star, of 110°. With regard to Mr. Swift's concluding observation as to the position of the presumed planet in its orbit, it is evident that, to present a round or nearly round disc, it must have been situate, as Prof. Watson infers, in the superior part of the orbit, and being to the west of the sun, would be approaching superior conjunction.

Prof. Watson states that the magnitude of the object in question was 4 to 41, and that of the second unknown star, which he alone appears to have observed, was 312, and adds, "they were probably really brighter, because