the imaginary two-foot rule-and why is about 115 feet more common than other distances?

I think it probable the sort of objects with which a man is familiar in his daily life may have some influence on his judgment in this respect. The men I questioned were for the most part engaged in warehouse or out-door work. I should like to know what answers watchmakers or jewellers would give. This theory, however, fails to account for the different estimate formed by the same individual when the moon is high above, or on the horizon; but I imagine, in the latter case, the imaginary rule is superseded, or more properly modified, by the terrestrial objects which are in the field of vision with the moon.

GEORGE C. THOMPSON Cardiff, March 7

Cuckows' Eggs

MAY I be permitted to make a few observations upon Mr. Sterland's letter in your issue of the 27th of January, relative to

Sterland's letter in your issue of the 27th of January, ferative to the cuckows' eggs' controversy.

In answer to Prof. Newton's query, "If the eggs in question were not cuckows', what birds laid them?" Mr. Sterland says, "My reply is simply that they were laid by the birds in whose nests they were found."

Besides the well-known fact mentioned by Mr. Newton

(NATURE, p. 266), "that when birds lay larger eggs than usual the colouring is commonly less deep," which tells so strongly against Mr. Sterland, I will only mention the following

instances. 1st. The egg No. 9 in the series given by Herr Baldamus, (see Zoologist for April 1868), which the Royal Forester, Mr. Braune, found in the ovary of a just-killed cuckow, and which "was coloured exactly like the eggs of Hypolais."

andly. The egg No. 26 in the same series, belonging to the collection of Dr. Dehne, described as a "light-greenish blue egg without any markings," and "might have passed for the egg of either species of the redstarts," which specimen "was laid in a cage by a cuckoo that was caught in a hay loft." (The italics

are mine.)
3rdly. The two instances given by Mr. H. E. Dresser,
(NATURE, p. 218) of two eggs of the cuckow "closely resembling" those "of the common bunting (Emberga miliaria)," one

found in a blackbird's, the other in a robin's nest.

Can Mr. Sterland explain away the 1st and 2nd instances? and how does he reconcile the 3rd instance with his affirmation?
Will he venture to say that the two apparent bunting's eggs were laid by a blackbird and a robin respectively, or, will he risk the remark that a common bunting had taken a cuckow-like freak into its head and been laying its eggs in other birds' nests? As either alternative is too absurd to be worth a moment's consideration, we can only conclude that they are cuckows' eggs, unless there has been some mistake as to the nests from which they were taken-scarcely likely, if Mr. Dresser's remarks are carefully read.

Therefore I think Mr. Sterland must admit, if he accepts these facts as authentic, that the cuckow's eggs do vary to a large extent, and doing so, he has little foundation for doubting the identity of the specimens mentioned by Herr Baldamus as taken

from nests whose eggs they resembled.

For my own part I have every confidence in the discrimination of that ornithologist, and am not afraid that he had been carried away by a pet theory that led him to *imagine* this or that egg taken "out of the nest of the hedge-sparrow or tree-pipit" to be a cuckow's merely because it is "an egg rather larger than the rest, but marked and coloured in a similar manner." If Mr. Sterland will carefully examine Herr Baldamus's evidence he will find that it is not of such a superficial character.

I agree with Mr. Sterland that it is certainly singular that British and Continental observers should come to such opposite conclusions as to this variation of the cuckow's egg in their respective countries; but this is no reason for impeaching (merely because our experience differs) the testimony of the eminent Continental oologists who affirm this extreme variation, and to some of whom Herr Baldamus's theory is probably unknown; as instance, in the two quotations by Prof. Newton (NATURE, p. 266) from Des Murs and Degland et Gerbe.

Can it be that such extreme variation really does occur on the Continent, and is yet comparatively absent in Britain? I leave it to abler hands than mine to discuss; but if it should prove so, it will be another feature in the already remarkable habits of the

cuckow. Tadcaster, Feb. 7.

Francis G. Binnie

MR. RUSKIN ON RIVER CONSERVATION

IN his recent Friday evening discourse on Verona and its Rivers, at the Royal Institution, Mr. Ruskin, speaking of the Adige and the Po, said: "I want to speak for a minute or two about these great rivers; because in the efforts that are now being made to restore some of its commerce to Venice precisely the same questions are in course of debate which again and again, ever since Venice was a city, have put her Senate at pause-namely, how to hold in check the continually advancing morass formed by the silt brought down by the Alpine Is it not strange that for at least six hundred years the Venetians have been contending with those rivers at their mouths—that is to say, where their strength has become wholly irresistible—and never once thought of contending with them at their sources, where their infinitely separated streamlets might be, and are meant by Heaven to be, ruled as easily as children? And observe how sternly, how constantly the place where they are to be governed is marked by the mischief done by their liberty. Consider what the advance of the delta of the Po in the Adriatic signifies among the Alps. The evil of the delta itself, however great, is as nothing in comparison of that which is in its origin. The gradual destruction of the harbourage of Venice, the endless cost of delaying it, the malaria of the whole coast down to Ravenna, nay, the raising of the bed of the Po, to the imperilling of all Lombardy, are but secondary evils. Every acre of that increasing delta means the devastation of part of an Alpine valley, and the loss of so much fruitful soil and ministering rain. Some of you now present must have passed this year through the valleys of the Torcia and Ticino. You know, therefore, the devastation that was caused there, as well as in the valley of the Rhone, by the great floods of 1868, and that ten years of labour, even if the peasantry had still the heart for labour, cannot redeem those districts into fertility. What you have there seen on a vast scale, takes place to a certain extent during every summer thunderstorm, and from the ruin of some portion of fruitful land the dust descends to increase the marshes of the Po. But observe furtherwhether fed by sudden melting of snow or by stormevery destructive rise of the Italian rivers signifies the loss of so much power of irrigation on the south side of the Alps. You must all well know the look of their chainseen from Milan or Turin late in summer—how little snow is left, except on Monte Rosa, how vast a territory of brown mountain-side heated and barren, without rocks, yet without forest. There is in that brown-purple zone, and along the flanks of every valley that divides it, another Lombardy of cultivable land; and every drift of rain that swells the mountain torrents, if it were caught where it falls, is literally rain of gold. We seek gold beneath the rocks; and we will not so much as make a trench along the hillside to catch it where it falls from heaven, and where, if not so caught, it changes into a frantic monster, first ravaging hamlet, hill, and plain, then sinking along the shores of Venice into poisoned Think what that belt of the Alps might be-up to four thousand feet above the plain-if the system of terraced irrigation, which even half-savage nations discovered and practised long ago in China and in Borneo, and by which our own engineers have subdued vast districts of farthest India, were but in part also practised herehere, in the oldest and proudest centre of European arts, where Leonardo da Vinci-master amongst masters-first discerned the laws of the coiling clouds and wandering streams, so that to this day his engineering remains unbettered by modern science: and yet in this centre of all human achievements of genius no thought has been taken to receive with sacred art these great gifts of quiet snow and flying rain. Think, I repeat, what that south slope