

Notes on the British Association Catalogue. By Capt. W. S. Jacob,
Director of the H. E. I. C.'s Observatory at Madras.

The undermentioned numbers have not been found in the places indicated:—

No.	R.A.	N.P.D.
90		
434		
534	There is a star at $1^{\text{h}} 37^{\text{m}} 30^{\text{s}}$ and $141^{\circ} 22'$	
642	„ $1^{\text{h}} 57^{\text{m}} 33^{\text{s}}$ „ $143^{\circ} 45'$	
969		
1088	is perhaps a duplicate of 1086, with error of $30'$	
3401	There is * 9 m. at $9^{\text{h}} 49^{\text{m}} 45^{\text{s}}$ $134^{\circ} 14'$	
3535	Perhaps a duplicate of 3541, 30° out in R.A.	
4144	„ $4146, 10^{\circ}$ „	
7264	„ $7265, 1^{\circ}$ out in N.P.D.	

“The Nos. 719, 2511, 2766, marked as ‘nebulæ,’ appear in our transit (5 ft. focal length, and $3\frac{1}{2}$ in. aperture) as loose clusters of small stars. Of course these may be nebulæ not visible in our instrument.

“No. 2511 contains a small double star, which has been observed.

“Nos. 1728 and 1999 are double.”

Mr. Hind says, “I discovered on the 4th of January last a rather conspicuous nebula, the position of which for 1850 is—

R.A. $12^{\text{h}} 0^{\text{m}} 33^{\text{s}}.16$. N.P.D. $23^{\circ} 59' 30''.1$ ☐

“It is elliptical, and has a decided nuclear condensation.

“In October, 1845, I found a highly-coloured crimson, or even scarlet, star in *Orion*; far the most deeply-coloured object I have yet seen. Its mean place for 1850 is—

R.A. $4^{\text{h}} 52^{\text{m}} 46^{\text{s}}.76$. N.P.D. $105^{\circ} 2' 9''.3$.”

Mr. Fletcher sends the following remarks on the brightness of *Pollux*:—

“In the *Celestial Cycle* Captain Smyth remarks, ‘This star has been suspected of varying in lustre, since it is recorded as having at times been *brighter* than *Castor*, whence Bradley rated it of the first magnitude; others have classed it of the 3d rank; but Ptolemy, Tycho, Lacaille, Zach, and all the best authorities classify it as of the 2d.’

“At the moment I am writing *Pollux* is obviously and unmistakably brighter than *Castor*, and I think it brighter, at any rate *fully* as bright, as α *Ursæ Majoris*. How long it may have been so I am unable to say, and can only speak of the present appearance.”