	Greenwich mean solar time of observation.		Right Ascension of the Planet.	North Pol. Distance of the Planet.	Number of measures.	
1847	Jan. 11	5 ^h 35 ^m 19 ^s .5	21 ^h 55 ^m 46 ^s .97	103° 10' 27".4	6	Equatoreal
	12	5 37 43,1	55 54,87	9 45,9	6	=====
	14	5 45 47,7	56 9,82	8 27,3	6	=====
	15	5 49 9,3	56 18,04	7 42,4	6	=====

The Equatoreal observations were all made with the large Northumberland Refractor. The star of reference is in every instance Nr. 7648 of the British Association Catalogue, the assumed mean place of which Jan. 1 1846 determined by 16 Transit and 8 Circle observations, is

R. A. 21^h 50^m 5^s.91. N. P. D. 103° 23' 55".56, which is slightly different from the place I used in my former observations.

I have been able with the Northumberland Telescope to verify Mr. *Lassell's* suspicion that the planet has a Ring. I first received the impression of a Ring on Jan. 12. Two independent drawings made by myself and my assistant Mr. *Morgan* gave the following representation of its appearance and position: —

The angle made by the diameter of the Ring with a parallel of declination was 66° by a not very satisfactory measurement taken on Jan. 15. The ratio of the diameter of the Ring to that of the Planet is by estimation that of 3 to 2. I am unable to account for my not having noticed the Ring earlier.

I have obtained the following places of Astræa: —

	Greenwich mean solar time of observation.		R. A. of Astræa.	N. P. D. of Astræa.	No. of measures.	Star of reference.
1847	Jan. 13	18 ^h 19 ^m 22 ^s .3	15 ^h 0 ^m 5 ^s .70	102° 33' 4".3	7	Piazzì XIV, 268
	14	18 28 48,6	15 1 38,04	102 37 41,9	5	Piazzì XV, 1.
				Piazzì XIV, 268	R. A. 14 ^h 58 ^m 11 ^s .16	N. P. D. 102° 18' 33".1
				Piazzì XV, 1.	15 2 49,71	102 28 12,0

These places are free from refraction and parallax. The mean of the corrections to *M. Darrest's* Ephemeris is —8".12 in Right Ascension and —50".0 in North Polar Distance. The assumed mean places Jan. 1. 1847 of the stars, derived from Piazzì are as follows: —

Since the middle of December the weather here has been very cloudy and unfavorable for observations.

J. Challis.

Beobachtungen des *Le Verrier'schen* Planeten am Dorpater Meridiankreise von Herrn Dr. *Clausen*.

1846	Novbr. 5	21 ^h 51' 19".45	—13° 34' 14".1
	12	51 21,45	34 1,5
	Decbr. 16	53 1,32	25 4,3

Für den Durchmesser habe ich am 12^{ten} Nov. 21^h 55' Sternzeit noch eine Bestimmung erhalten: 2"580 aus 12 Ablesungen. Seit dem 16^{ten} Decbr. constante Trübheit, erst heute (25. Januar) Aufheiterung.

Mädler.

Schreiben des Herrn *Bond* an den Herausgeber.
Cambridge Observatory U. S. 1846. Decbr. 15.

Dear Sir.

I send you the observations made here on the new Planet, The Telescope used was a 5 foot refractor 4½ inch. aperture,

Equatorially mounted and furnished with a Troughton's wire-micrometer, the observations are given corrected for refraction,