Auszug aus einem Briefe des Herrn *Sheepshanks*, Secretairs der Königl. Astron. Gesellschaft
an den Herausgeber.

Royal Astronomical Society. 1847 June 12.

Observations of Neptune.

Cambridge.	Equatoreal.	Prof. Challis.
1847 Greenw. M. T.	R. A.	N. P. D.
May 26 14 ^h 58 ^m 36 ^s	22 ^h 10 ^m 36 ^s 72	101° 52' 33 ^u 5
June 1 14 5 4	22 10 39,86	101 52 27,0

The Planet was compared on May 26 three times with B. A. C. 7740 and twice with a star in *Bessels* zones 127 & 129 22^h 15^m 11^s. On June 1. it was compared five times with the former star and four times with the latter. The places of the stars are taken from the British Association Catalogue and from *Bessel*.

Ephemeris of Neptune for Mean Midnight Greenwich
calculated by M. *Adams*.

1847	R. A.	N. P. D.
April 30	22 ^h 9 ^m 30 ^s 79	101° 57' 48 ^u 1
May 10	22 10 5,75	101 54 52,5
20	22 10 28,63	101 53 4,4
30	22 10 39,07	101 52 25,4
June 9	22 10 37,10	101 52 55,3
19	22 10 22,91	101 54 32,4
29	22 9 57,22	101 57 12,3

1847	R. A.	N. P. D.
July 9	22 ^h 9 ^m 21 ^s 08	102° 0' 48 ^u 9
19	22 8 35,72	102 5 14,4
29	22 7 42,91	102 10 18,6
Aug. 8	22 6 44,57	102 15 50,3

This Ephemeris is deduced from the Elements of Neptune last communicated by Mr. *Adams*.

Professor *Challis* observations give the following equations for the Observation — Ephemeris.

	R. A.	N. P. D.
May 26	+0 ^s 18	+1 ^u 5
June 1	+0 21	+1,0

Mr. *Adams* says in his letter of June 11. 1847. I am hard at work on the perturbations of Uranus, in order to obtain a new theoretical determination of the place.... The general values of the perturbations are enormous, far exceeding any thing else of the same kind in the system of the primary planets. A comparison of the numerical expressions for the perturbations which I have now obtained with those, which I used before, would justify some scepticism as to former conclusions. But we shall soon see how this great apparent difference affects the result.

Sheepshanks.

Auszug aus einem Schreiben des Herrn Directors *Rümker* an den Herausgeber.

Hamburg 1847. Juni 18.

Wegen neueren hinzugekommenen Beobachtungen sind die am Meridiankreise bestimmten scheinbaren Oerter der Vergleichungs-Sterne so zu verbessern.

	sch. AR.	sch. Decl.	Beob.
Juni 2	15° 26' 40 ^u 650	10° 0' 37 ^u	1
8	15 24 1,629	9 54 48,9	5
10	15 15 57,612	9 46 9,7	2
14	15 22 11,404	9 47 43,2	1
—	15 22 34,218	9 46 58,5	1
15	15 14 55,933	9 55 52,6	2

Beobachtungen des Neptunus.

1847	M. H. Zt.	sch. AR. $\frac{1}{2}$	sch. Decl. $\frac{1}{2}$	Beob.
Juni 14	13 ^h 15 ^m 0 ^s 0	332° 37' 41 ^u 2	—11° 53' 27 ^u 9	5
17	13 33 3,0	332 36 46,8	11 54 0,0	1

C. Rümker.