

Same night,—(September 6th, 1858,)—and same Station.

Observations for the Latitude—(continued.)2.—*Circum-meridian altitudes of Gamma CEPHEI, North.*

Number for Reference.	Observed meridian distances in Sidereal time.	Reduction to the meridian.	Observed true circum-meridian altitudes of Star, as corrected for refraction and errors of sextant.			True meridian altitudes deduced.			Latitude, deduced from each observation.		
			°	'	"	°	'	"	°	'	"
1	m. s. 9 34.9	0 53.6	55	52	12.6	55	53	06.2	42	43	44.0
2	6 50.9	0 27.4	55	52	37.6	55	53	05.0	42	43	42.8
3	4 48.9	0 13.5	55	52	52.6	55	53	06.1	42	43	43.9
4	3 29.9	0 07.2	55	52	57.6	55	53	04.8	42	43	42.6
5	1 49.9	0 02.0	55	53	02.6	55	53	04.6	42	43	42.4
6	0 33.1	0 00.2	55	53	12.6	55	53	12.8	42	43	50.6
7	2 35.1	0 03.9	55	53	00.1	55	53	04.0	42	43	41.8
8	5 13.1	0 15.8	55	52	47.6	55	53	03.4	42	43	41.2
9	9 10.1	0 49.1	55	52	12.6	55	53	01.7	42	43	39.5
10	11 35.1	1 18.3	55	51	42.6	55	53	00.9	42	43	38.7
11	13 22.1	1 44.3	55	51	25.1	55	53	09.4	42	43	47.2

LATITUDE, deduced from a mean of 11 circum-meridian altitudes of Gamma CEPHEI, North 42 43 43.1

LATITUDE, deduced from a mean of 11 circum-meridian altitudes of Alpha AQUILÆ (Altair,) South, as before given... 42 43 46.3

Result:—Latitude of this Racine Station, from observations made this night on North and South Stars 42 43 44.7
Reduction to the dome of the Court House..... —0.1

Result:—Latitude of the Racine Court House 42 43 44.6 N