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LUNAR OCCULTATIONS FOR DECEMBER.

Occultations of Planets and fixed Stars by the Moon, in December 1831. Computed for Greenwich, by THOMAS HENDERSON, Esq.; and circulated by the Astronomical Society.

1831.	Stars' Names.	Magnitude.	Ast. Soc. Cat. No.	Immersion.				Emersions.			
				Sidereal time.	Mean solar time.	Angle from		Sidereal time.	Mean solar time.	Angle from	
						North Pole.	Vertex.			North Pole.	Vertex.
Dec. 8	o Capricor.*	6	2408	h m	h m	°	°	h m	h m	°	°
10	42 Aquarii	6	2653	2 6	8 51	95	128	21 57	4 51	214	229
15	5 Ceti.....	5	255	23 58	6 23	103	76	1 6	7 31	307	291
16	μ Ceti.....	4	293	8 56	15 20	125	164	Under horizon.	...	...	...
16	f Tauri.....	5.6	379	2 50	9 11	53	46	3 28	9 49	349	350
17	γ Tauri.....	3.4	478	21 19	3 37	99	61	22 10	4 27	293	253
	75 Tauri...	6	508	0 59	7 16	128	90	1 59	8 17	268	238
	θ Tauri....	5	510	1 18	7 35	18	343	) almost touching Star.—Occulted to places further North.			
	(99) Tauri	5.6	516	1 55	8 12	61	29	2 42	8 59	333	310
	Aldebaran	1	528	4 46	11 2	48	55	5 25	11 42	340	355
18	119 Tauri	5.6	663	0 58	7 11	120	79	1 55	8 9	266	227
	120 Tauri	6	667	1 27	7 40	96	56	2 29	8 42	290	254
20	g Geminor.	6	951	2 49	8 55	35	354	3 23	9 28	325	284
22	Regulus....	1	1209	13 44	19 39	68	105	14 45	20 40	250	290

* Double Star.

METEOROLOGICAL OBSERVATIONS FOR OCTOBER 1831.

Gosport:—Numerical Results for the Month.

Barom. Max. 30.428. Oct. 17. Wind N.—Min. 29.231. Oct. 1. Wind S.
 Range of the mercury 1.197.
 Mean barometrical pressure for the month 29.904
 Spaces described by the rising and falling of the mercury..... 4.865
 Greatest variation in 24 hours 0.594.—Number of changes 16.
 Therm. Max. 68°. Oct. 6. Wind S.W.—Min. 40°. Oct. 29. Wind N.W.
 Range 28°.—Mean temp. of exter. air 57° 58. For 31 days with ☉ in ♈ 59.68
 Max. var. in 24 hours 19° 00.—Mean temp. of spring water at 8 A.M. 54.30

De Luc's Whalebone Hygrometer.

Greatest humidity of the atmosphere, in the evening of the 12th..... 97°
 Greatest dryness of the atmosphere, in the afternoon of the 5th..... 61.0
 Range of the index 36.0
 Mean at 2 P.M. 72° 6.—Mean at 8 A.M. 78° 1.—Mean at 8 P.M. 82.0
 — of three observations each day at 8, 2, and 8 o'clock 77.6
 Evaporation for the month 1.60 inch.
 Rain in the pluviometer near the ground 4.835 inches.
 Prevailing wind, South-west.

Summary of the Weather.

A clear sky, 2; fine, with various modifications of clouds, 13; an overcast sky without rain, 8; foggy, $\frac{1}{2}$; rain, $7\frac{1}{4}$.—Total 31 days.

Clouds.