

Lunar X 2018.

Searching for Sun Angle = 0.5000° over feature at 0.900°E 25.300°S

Moon librations, elongation and percent illumination calculated for a geocentric observer

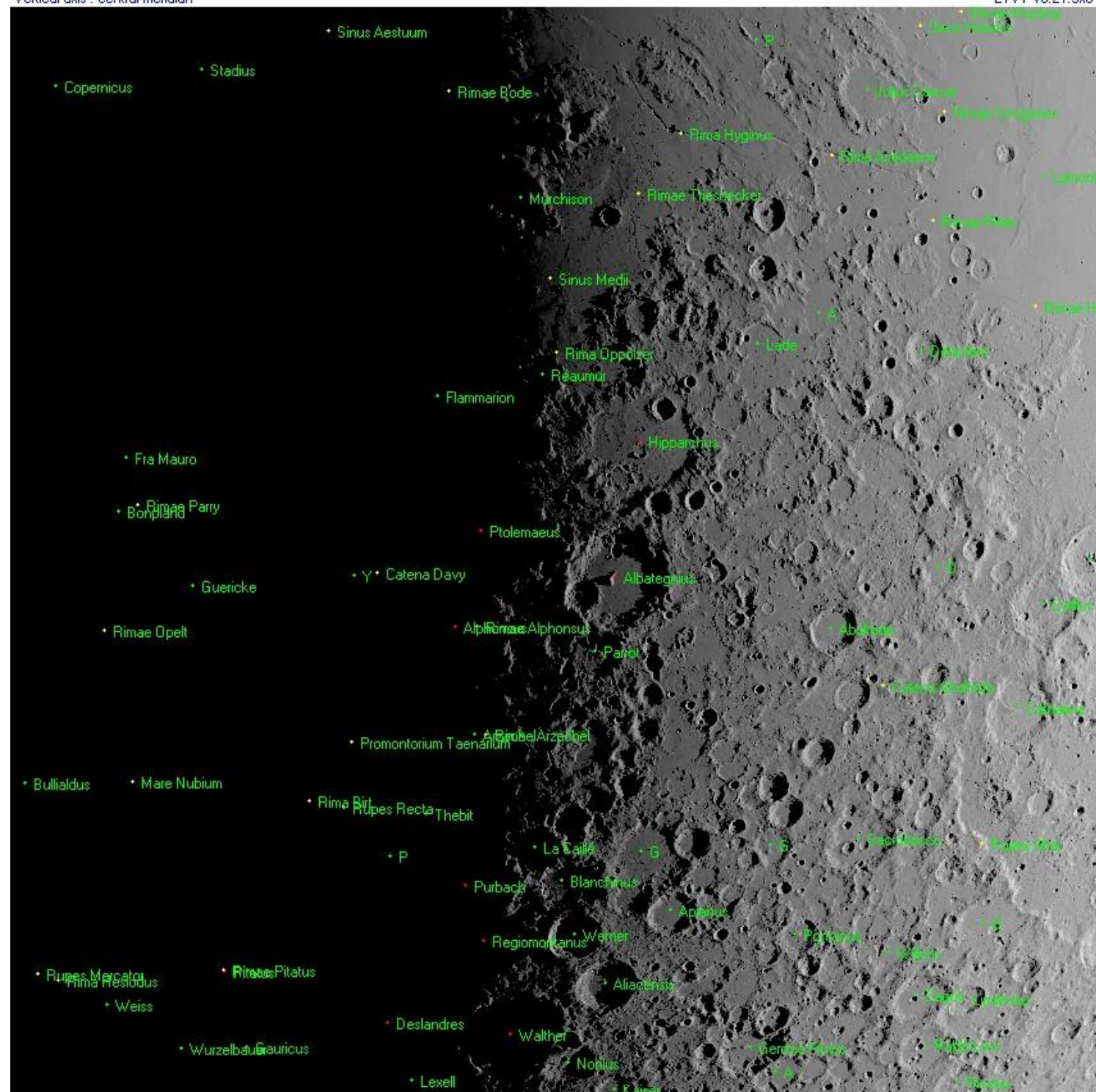
Date	Time UT	Sun Angle		Sub-Solar Point		Librations		Elong.	Phase %Illum.	Age	
		Altitude	Azimuth	Colong	Lat.	Long.	Lat.				
24/01/2018	07:51:58	0.5000	89.3919	359.812	0.336	-7.223	6.466	82.528	43.625	7.232	*+
22/02/2018	21:21:14	0.5000	90.3133	359.418	-0.497	-5.033	6.594	84.221	45.091	7.011	*+
24/03/2018	10:15:19	0.5000	91.0597	359.099	-1.172	-1.783	4.512	87.091	47.586	6.878	*+
22/04/2018	22:34:02	0.5000	91.4258	358.943	-1.503	1.662	0.902	90.440	50.507	6.859	*+
22/05/2018	10:24:10	0.5000	91.3280	358.985	-1.414	4.620	-2.940	93.530	53.202	6.942	*+
20/06/2018	21:58:00	0.5000	90.8090	359.206	-0.945	6.650	-5.758	95.779	55.158	7.094	*+
20/07/2018	09:31:28	0.5000	90.0109	359.547	-0.224	7.441	-6.836	96.820	56.063	7.280	*+
18/08/2018	21:21:21	0.5000	89.1386	359.920	0.565	6.814	-6.080	96.487	55.778	7.475	*+
17/09/2018	09:41:11	0.5000	88.4192	0.228	1.215	4.836	-3.848	94.818	54.331	7.653	*+
16/10/2018	22:37:13	0.5000	88.0548	0.384	1.545	1.864	-0.739	92.072	51.943	7.785	*+
15/11/2018	12:05:59	0.5000	88.1656	0.336	1.445	-1.509	2.544	88.737	49.034	7.836	*+
15/12/2018	01:55:22	0.5000	88.7389	0.091	0.926	-4.585	5.267	85.455	46.173	7.774	*+

* = Target feature on visible disk

+ = Azimuth of Sun within 5.00° of target (= 89.500°)

*** search completed ***

LTVT v0.21.5x6



Geocentric computation for: 2018/01/24 07:52:00 UT

Searching for Sun Angle = 1.0000° over feature at 0.900°E 25.300°S
Moon librations, elongation and percent illumination calculated for a geocentric observer

Date	Time UT	Sun Angle		Sub-Solar Point		Librations		Elong.	Phase %Illum.	Age	
		Altitude	Azimuth	Colong	Lat.	Long.	Lat.				
24/01/2018	08:57:22	1.0000	89.1569	0.364	0.335	-7.213	6.489	83.086	44.109	7.278	*+
22/02/2018	22:26:35	1.0000	90.0785	359.971	-0.498	-5.001	6.576	84.801	45.595	7.056	*+
24/03/2018	11:20:38	1.0000	90.8246	359.652	-1.173	-1.741	4.457	87.684	48.104	6.923	*+
22/04/2018	23:39:18	1.0000	91.1900	359.496	-1.503	1.701	0.829	91.034	51.025	6.904	*+
22/05/2018	11:29:24	1.0000	91.0916	359.538	-1.414	4.648	-3.004	94.112	53.708	6.987	*+
20/06/2018	23:03:13	1.0000	90.5719	359.760	-0.944	6.661	-5.795	96.340	55.645	7.139	*+
20/07/2018	10:36:42	1.0000	89.7733	0.101	-0.222	7.429	-6.838	97.358	56.529	7.326	*+
18/08/2018	22:26:37	1.0000	88.9009	0.474	0.566	6.780	-6.050	97.004	56.226	7.520	*+
17/09/2018	10:46:32	1.0000	88.1816	0.781	1.216	4.783	-3.796	95.318	54.767	7.698	*+
16/10/2018	23:42:38	1.0000	87.8177	0.937	1.545	1.801	-0.677	92.564	52.372	7.830	*+
15/11/2018	13:11:26	1.0000	87.9293	0.890	1.444	-1.572	2.602	89.228	49.463	7.881	*+
15/12/2018	03:00:50	1.0000	88.5033	0.644	0.925	-4.638	5.307	85.954	46.608	7.820	*+

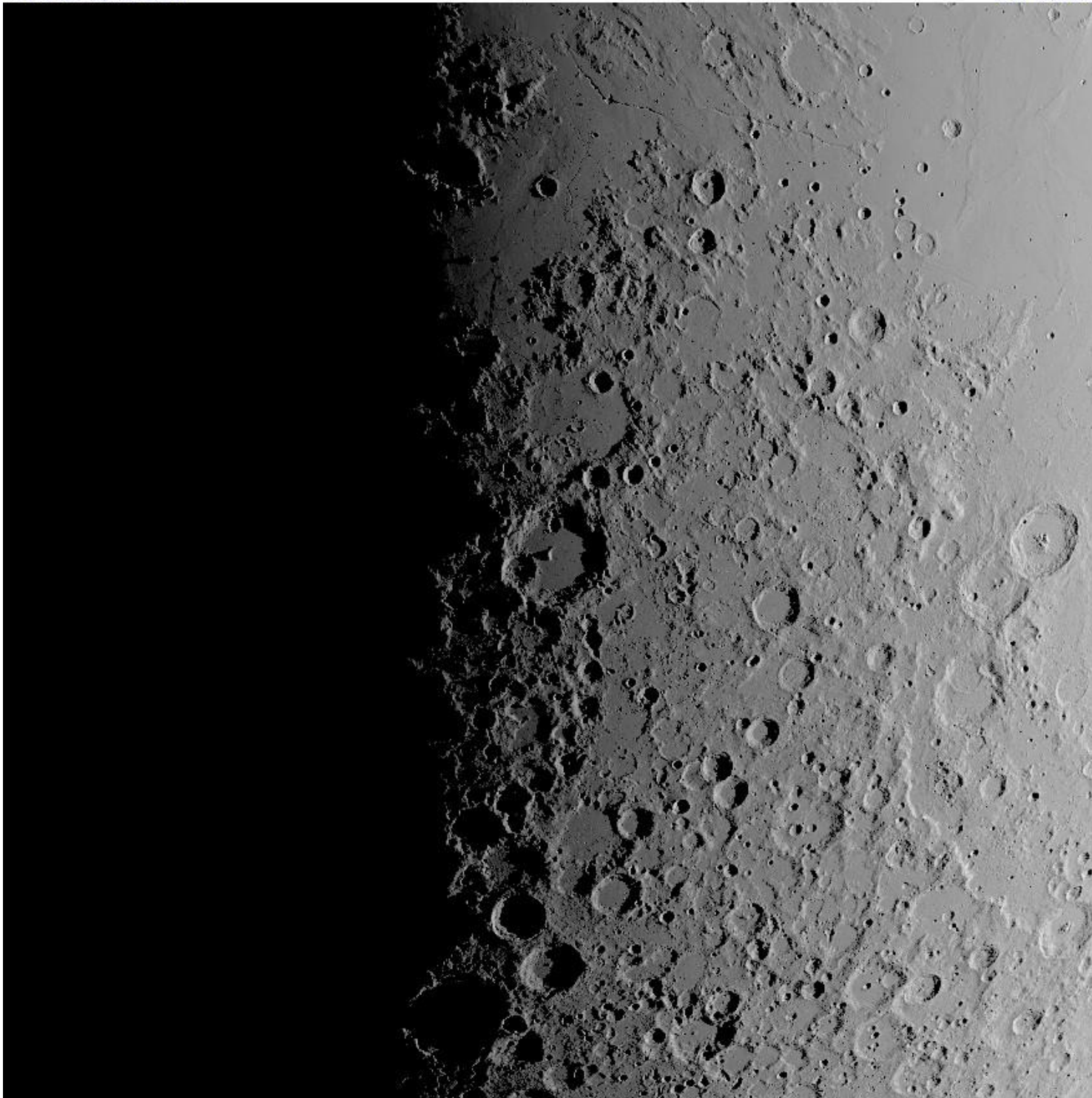
* = Target feature on visible disk

+ = Azimuth of Sun within 5.00° of target (= 89.500°)

*** search completed ***

Sub-solar Pt = 89.363°E/0.925°N Sub-Earth Pt = 4.637°W/5.306°N Center = 3.998°E/11.284°S Zoom = 2.500
Vertical axis : central meridian

LTVT v0.21.5x6



Full 3D DEM simulation (Lunar-Lambert with cast shadows): LDEM_64.IMG

Geocentric computation for: 2018/12/15 03:00:00 UT