

Lunar X Predictions, August to December 2021

	Phil Harrington Prediction		358° Colong	40°N-75°W	
Date (First Quarter)	Colongitude	Time	Time	Lunar Transit	Sunset
August 15 (15, 11:20 am)	358.69°	6:15 am	4:54 am	7:04 pm	7:56 pm EDT
September 13 (13, 4:39 pm)	358.68°	5:56 pm	4:35 pm	6:55 pm	7:12 pm EDT
October 13 (12, 11:25 pm)	358.48°	6:04 am	5:07 am	7:49 pm	6:23 pm EDT
November 11 (11, 7:46 am)	358.14°	5:50 pm	5:33 pm	6:33 pm	4:47 pm EST
December 11 (10, 8:36 pm)	357.75°	7:15 am	7:45 am	6:48 pm	4:35 pm EST

Notes:

Phil Harrington's predictions come from his table at: http://www.philharrington.net/cc_table_4.3_lunar_x-v_timetable.pdf.

The colongitude values for the times of Harrington's predictions, and the 358° colongitude times, were determined with WinJUPOS.

The times of lunar transit and first quarter, as well as sunset, were determined with the USNO's MICA 2.2.2 software.

All times are for the Eastern Time Zone, Daylight Time for August through October, Standard Time for November and December.

Remember that the Lunar X gradually appears as the lunar terminator slowly moves across the respective crater rims, progressively illuminating them, then ultimately illuminating surrounding craters and the surface below them; it persists for several hours.

Including the already-observed Lunar X of July 16, it is self-evident that favorable times for seeing it occur on alternating months, evidently due to the lunar synodic month being approximately 29.5 days long. The unfavorable months have been grayed out.

Prepared by Joe Stieber, July 19, 2021.