

## Lunar Meteor Campaign Schedule / Observing Plan for 2008

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This form outlines the plan to monitor the moon on a regular basis outside normal annual showers. This is in support of sustained campaigns to do the same, and to enable them to better add confidence to their impact candidates. Each month, for up to two weeks per month, we are coordinating observations of the Earthshine portion of the moon for background (including the minor showers when they fall during this time) meteor impact flux. A typical run of observations starts three days after New Moon and continues until t First Quarter. The run resumes at Last Quarter and continues until three days prior to New Moon. These times are reference times only and are not set in stone: observers are encouraged to observe closer to New Moon if the elevation permits them to do so; and to observe past First Quarter and prior to Last Quarter, if their systems permit them to do so with minimal stray light interference. Observations of the moon during annual showers typically start when the background ZHR rises above 10 and continue until it falls back below 10 (although showers with ZHR of 5 are listed in the table below). During the monthly campaign, much of the annual shower activity will be absorbed into the earthshine activity.

MO	NM	A	FQ	B	FM	C	LQ	D
Jan '08	8	11	15	15	22	30	30	5
Feb	7	10	14	14	21	29	29	3
Feb	21	← Date of Total Lunar Eclipse (Lunar Meteor Opportunity)						
Mar	7	10	14	14	21	29	29	3
Apr	6	9	12	12	20	28	28	3
May	5	8	12	12	20	28	28	2
Jun	3	6	10	10	18	26	26	30
Jun	27	← Date of Maximum for the annual June Bootids Shower						
Jul	3	6	10	10	18	25	25	29
Jul	27	← Date of Maximum for the annual South $\delta$ -Aquarids Shower						
Aug	1,30	4	8	9	16	23	23	27
Sep	29	2	7	7	15	21	22	26
Oct	28	2,31	7	7	14	20	21	25
Oct	22	← Date of Maximum for the annual Orionid Shower						
Nov	27	30	6	6	13	19	19	24
Nov	5	← Date of Maximum for the annual South Taurid Shower						
Nov	17	← Date of Maximum for the annual Leonid Shower						
Dec	27	31	5	5	12	19	19	24
Dec	22	← Date of Maximum for the annual Ursiid Shower						
Jan '09	4	← Date of Maximum for the annual Quadrantid Shower						
Jan '09	26	29	4	4	11	18	18	4

The table above summarizes the observing plan of the Lunar Meteoritic Impact Search program. Each row corresponds to one calendar month of Earthshine observations. The abbreviations in the top row are as follows:

NM = Date of New Moon

A = First day of evening Earthshine observing run

FQ = Date of First Quarter Moon

B = Last day of evening Earthshine observing run

C = First day of morning Earthshine observing run

LQ = Date of Last Quarter Moon

D = Last date of morning Earthshine run.

In 2008, there are only two major showers during which the moon is favorably placed, plus a third in early 2009. There are several minor showers that occur during the Earthshine surveys as well, and the occurrence of each at set times is represented by rows dedicated to each of the annual shower events. The opportunities include the total lunar eclipse of 21 February 2008. The Moon will be observed during the entire 51 minutes of totality, plus the eastern half (celestial directions, the portion in shadow) for up to 26 minutes prior to the start of totality, and the western half (celestial directions, the portion in shadow) for up to 26 minutes after the end of totality.

The start and end dates for each Earthshine session are given in bold numbers. Notice that in several cases, the session straddles two months. The starting time is given in the first month, the ending time in the second month. Listing these events on the month pages of wall calendars will help make this clearer to the user.

Any questions concerning this plan can be directed to the ALPO Lunar Meteoritic Impact Search Coordinator, Mr. Brian Cudnik, at [cudnik@sbcglobal.net](mailto:cudnik@sbcglobal.net).