Lunar Program Observing List

Lunar Observing Program Coordinator:

Nina Chevalier
1662 Sand Branch Rd.
Bigfoot, Texas 78005
210-218-6288
ninalei1950@yahoo.com

The List

The 100 features to be observed for the Lunar Program are listed below. At the top of each section is a space to list the instruments used in the program. After that are five columns: CHK, Object, Feature, Date and Time. The "CHK" column should be used to check off the feature as you observe it. The "Object" column lists the features in Naked Eye, Binocular, and Telescopic order, and tells you what you are observing and when the best time is to observe it. The "Feature" column lists the 100 features to be observed. Finally, the "Date" and "Time" columns allow you to log when you observed the objects. In the last section, we have listed the 10 optional activities, and broken them down as to naked eye, binocular, and telescopic. Also on page 4, we have included four illustrations to help with observing four of the naked eye features.

We certainly hope that you find the Lunar Program useful in helping you become more familiar with earth's nearest neighbor. If after completing this program you would like to do more work in this area, you may contact The Association of Lunar and Planetary Observers.

Julius L. Benton Jr.
ALPO Lunar Recorder
% Associates in Astronomy
305 Surrey Road
Savannah, Ga. 31410
(912) 897-0951
E-mail: 74007.3446@compuserve.com.

Until then, good luck, clear skies, and good observing.

Lunar Program Checklist

Naked Eye Objects

Instruments Used _____

	OBJECT	FEATURE	DATE
[ ]	(Within 72 Hrs of new)	Old Moon in New Moon's Arms	_____
[ ]	(Within 72 Hrs of new)	New Moon in Old Moon's Arms	_____
[ ]	(Within 40 Hrs of new)	Crescent Moon, Waxing	_____
[ ]	(Within 48 Hrs of New)	Crescent Moon, Waning	_____
[ ]		Man in the Moon	_____
[ ]		Woman in the Moon	_____
[ ]		Rabbit in the Moon	_____
[ ]		Cow Jumping Over the Moon	_____
	Maria		
[ ]		Crisium	_____
[ ]		Fecunditatis	_____
[ ]		Serenitatis	_____
[ ]		Tranquillitatis	_____
[ ]		Nectaris	_____
[ ]		Imbrium	_____
[ ]		Frigoris	_____
[ ]		Nubium	_____
[ ]		Humorum	_____
[ ]		Oceanus Procellarum	_____

Binocular Objects

Instruments Used _____

	OBJECT	FEATURE	DATE
[ ]		Lunar Rays	_____
[ ]		Sinus Iridum	_____
[ ]		Sinus Medii	_____
[ ]		Sinus Roris	_____
[ ]		Palus Somnii	_____
[ ]		Palus Epidemiarum	_____
[ ]		Mare Vaporum	_____
	Craters		
[ ]	~4 Days old	Langrenus	_____
[ ]		Vendelinus	_____
[ ]		Petavius	_____
[ ]		Cleomedes	_____
[ ]		Atlas	_____
[ ]		Hercules	_____
[ ]		Endymion	_____
[ ]		Macrobius	_____
[ ]	~7 Days old	Piccolomini	_____
[ ]		Theophilus	_____
[ ]		Cyrillus	_____
[ ]		Catharina	_____
[ ]		Posidonius	_____
[ ]		Fracastorius	_____
[ ]		Aristoteles	_____
[ ]		Eudoxus	_____
[ ]		Cassini	_____

[ ]		Hipparchus	_____
[ ]		Albategnius	_____
[ ]		Aristillus	_____
[ ]		Autolycus	_____
[ ]		Maurolycus	_____
[ ]	~10 Days old	Plato	_____
[ ]		Archimedes	_____
[ ]		Ptolemaeus	_____
[ ]		Alphonsus	_____
[ ]		Arzachel	_____
[ ]		Walter	_____
[ ]		Maginus	_____
[ ]		Tycho	_____
[ ]		Clavius	_____
[ ]		Eratosthenes	_____
[ ]		Longomontanus	_____
[ ]		Copernicus	_____
[ ]		Bullialdus	_____
[ ]		Aristarchus	_____
[ ]		Gassendi	_____
[ ]	~14 Days old	Kepler	_____
[ ]		Grimaldi	_____

Telescopic Objects

Instruments Used _____

	OBJECT	FEATURE	DATE
[ ]		Sinus Aestuum	_____
[ ]		Lacus Mortis	_____
[ ]		Palus Putredinis	_____
[ ]		Promontorium Laplace	_____
[ ]		Promontorium Heraclides	_____
[ ]		Promontorium Agarum	_____
[ ]		Montes Alpes	_____
[ ]		Montes Apenninus	_____
[ ]		Mons Hadley	_____
[ ]		Mons Piton	_____
[ ]		Mons Pico	_____
[ ]		Rupes Altai	_____
[ ]		Rima Hyginus	_____
[ ]		Vallis Schroteri	_____
[ ]		Vallis Alpes	_____
[ ]		Rupes Recta (straight wall)	_____
	Craters		
[ ]	~4 Days old	Picard	_____
[ ]		Furnerius	_____
[ ]		Petavius Wall	_____
[ ]		Messier/Messier A	_____
[ ]		Proclus	_____
[ ]		Fabricius	_____
[ ]	~7 Days old	Plinius	_____
[ ]		Mitchell	_____

[ ]		Cassini A	_____
[ ]		Manilius	_____
[ ]		Gemma Frisius	_____
[ ]	~10 Days old	Davy	_____
[ ]		Pitatus	_____
[ ]		Billy	_____
[ ]		Fra Mauro	_____
[ ]		Clavius craterlets	_____
[ ]		Hippalus	_____
[ ]		Herschel, J.	_____
[ ]	~14 Days old	Schickard	_____
[ ]		Reiner Gamma	_____

Optional Activities:

Naked Eye:

1. Estimate first quarter phase within eight hours.
2. Estimate third quarter phase within eight hours.
3. Estimate full moon within thirty-six hours.
4. Plot moon's position against the stars for three consecutive days.
5. Compare the size of the full moon on the horizon with the full moon on the meridian using a dime held at arm's length.
6. Find the thinnest phase by which you can read newsprint.

Binocular:

1. Sketch libration - use Mare Crisium or Grimaldi for examples.
2. Sketch a lunar map - use any scale for binoculars only.

Telescopic:

1. Plot the moon's hourly motion against the stars for two hours or more.
2. Measure the height of a lunar mountain - need to calculate the sun's elevation at the mountain and estimate the shadow length - try Mt. Piton.