

What's Up?

April 1-30, 2024

Made with the 2024 RASC Observer's Handbook, 2024
Night Sky Almanac, Sky Safari®, and Stellarium®



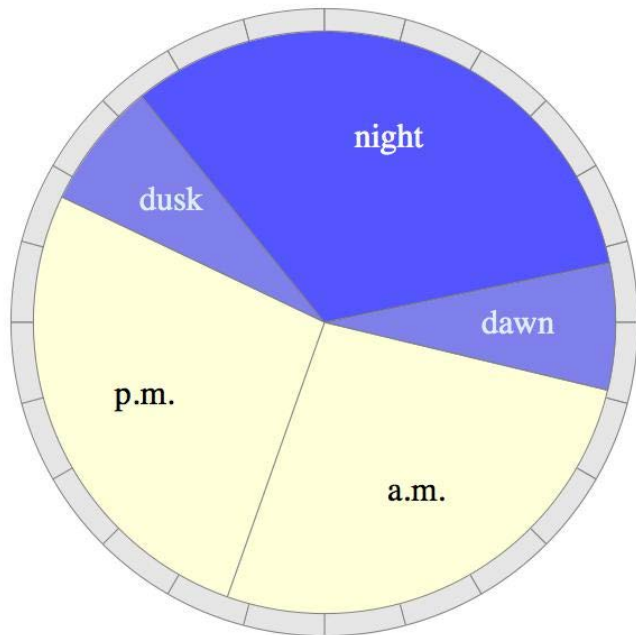
photo: David Hoskin

The Sun This Month

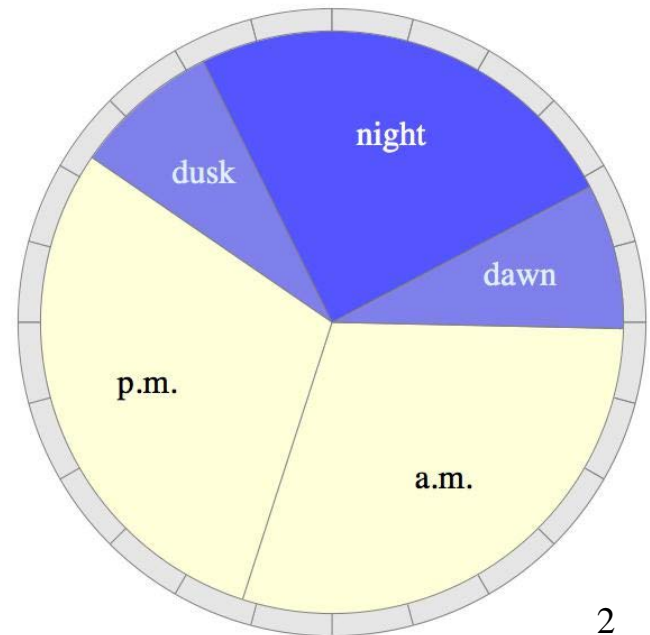
[Today's Solar Activity](#)

Date	Sunset	Dusk End	Darkness	Dawn Start	Sunrise	“Noon”	Sunlight	Max Altitude
Apr 1	7:42 p.m.	9:24 p.m.	7.8 h	5:13 a.m.	6:54 a.m.	1:17 p.m.	12.8 h	51°
Apr 30	8:18 p.m.	10:14 p.m.	5.9 h	4:09 a.m.	6:06 a.m.	1:11 p.m.	14.2 h	60°

Halifax Apr 01



Halifax Apr 30



The Moon This Month

Date	Phase	English	Mi'kmaq
April 2	<i>Last Quarter</i>	Maple Sugar	<u>Siwkewiku's</u>
April 6	Saturn & Mars near the Moon		
April 7	Moon at perigee (358,800 km)		
April 7	Venus near the Moon		
April 8	Total solar eclipse		
April 8	<i>New Moon</i>	Birds Laying Eggs	<u>Penatmuiku's</u>
April 10	Jupiter & Uranus near the Moon		
April 15	<i>First Quarter</i>		
April 20	Moon at apogee (405,600 km)		
April 21	Lyrid meteor shower peak		
April 23	<i>Full Moon</i>		



Total solar eclipse of April 8, 2024

Northern limit of total eclipse

Central line of total eclipse

Southern limit of total eclipse





SOLAR ECLIPSE


EASTERN CANADA

APRIL 8, 2024

Timetable for sample cities on the path of totality:

CITY	START	DURATION
Hamilton, ON	3:18 p.m. ET	1 min 50 s
Belleville, ON	3:21 p.m. ET	2 min 4 s
Montreal, QC	3:26 p.m. ET	1 min 27 s
Sherbrooke, QC	3:27 p.m. ET	3 min 26 s
Fredericton, NB	4:33 p.m. AT	2 min 17 s
Miramichi, NB	4:34 p.m. AT	3 min 8 s
Alberton, PEI	4:35 p.m. AT	3 min 3 s
Summerside, PEI	4:37 p.m. AT	1 min 2 s
Meat Cove, NS	4:39 p.m. AT	1 min 30 s
Gander, NL	5:12 p.m. NT	2 min 13 s

 Sun completely hidden

 Sun mostly hidden



Canadian Space
Agency

Agence spatiale
canadienne

Canada 

Local Type:

Begins:

Maximum:

Ends:

Duration:

Partial Solar
Eclipse in
Halifax, Nova Scotia

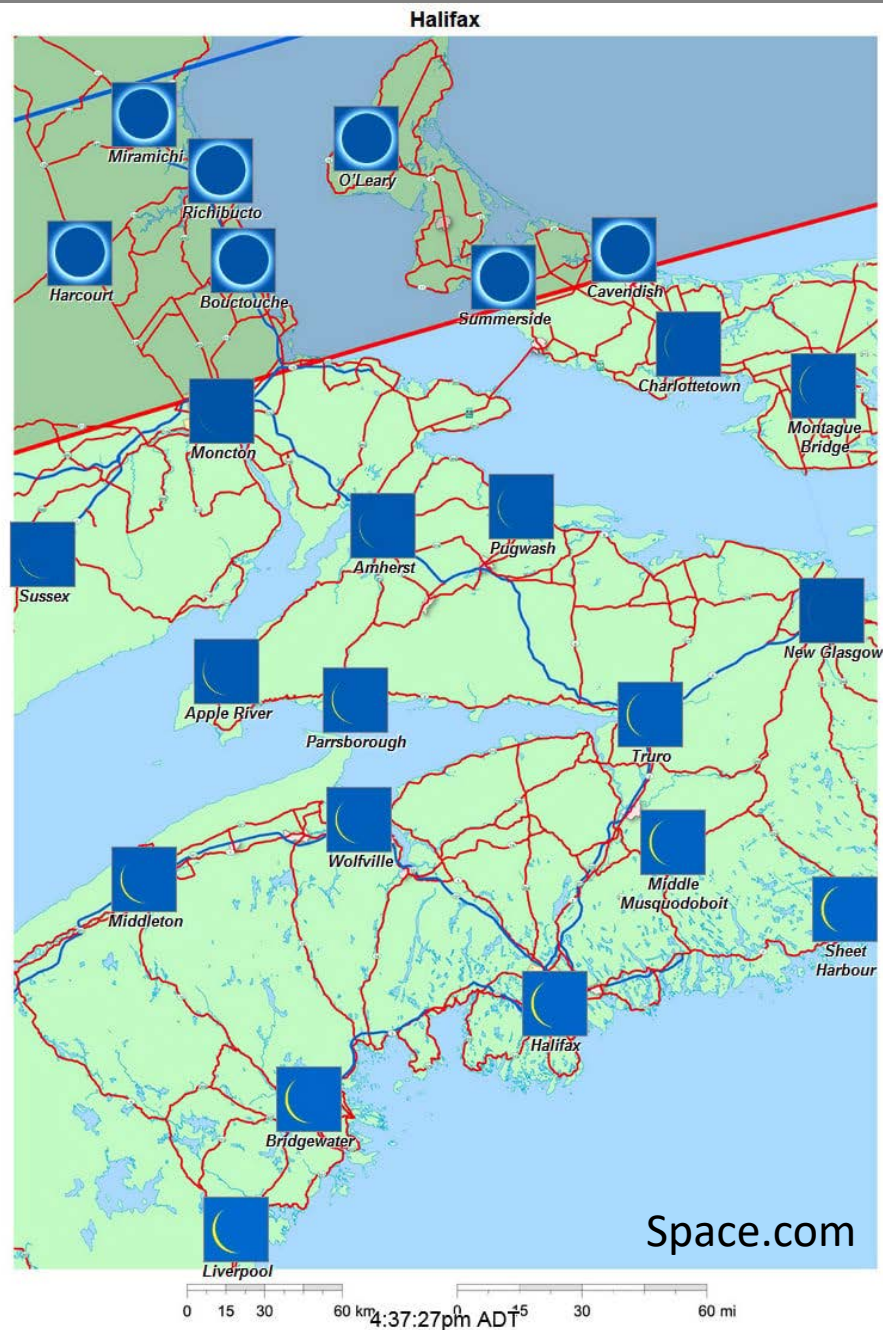
Mon, Apr 8, 2024 at
3:27 pm

Mon, Apr 8, 2024 at
4:38 pm 0.946
Magnitude

Mon, Apr 8, 2024 at
5:44 pm

2 hours, 17 minutes

<https://www.timeanddate.com>

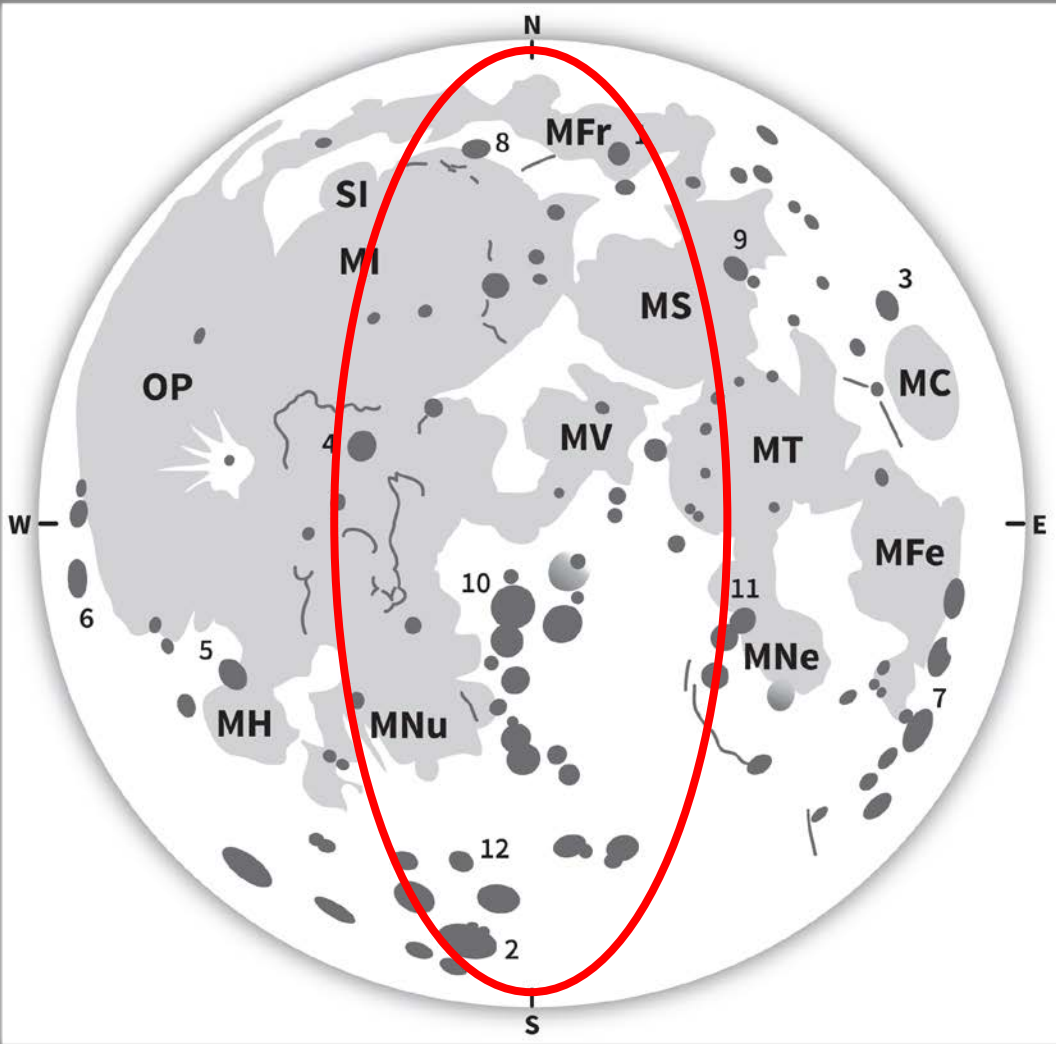




Apr 6 @ 6:00 a.m.
7x50 binoculars FOV 7.1°



Apr 10 @ 9:00 p.m.
7x50 binoculars FOV 7.1°



MARE

- MC: Mare Crisium
- MFe: Mare Fecunditatis
- MFr: Mare Frigoris
- MH: Mare Humorum
- SI: Sinus Iridum
- MI: Mare Imbrium
- MNe: Mare Nectaris
- MNu: Mare Nubium
- MS: Mare Serenitatis
- MT: Mare Tranquillitatis
- MV: Mare Vaporum
- OP: Oceanus Procellaru

best view April 14-16 after sunset

The Moon in

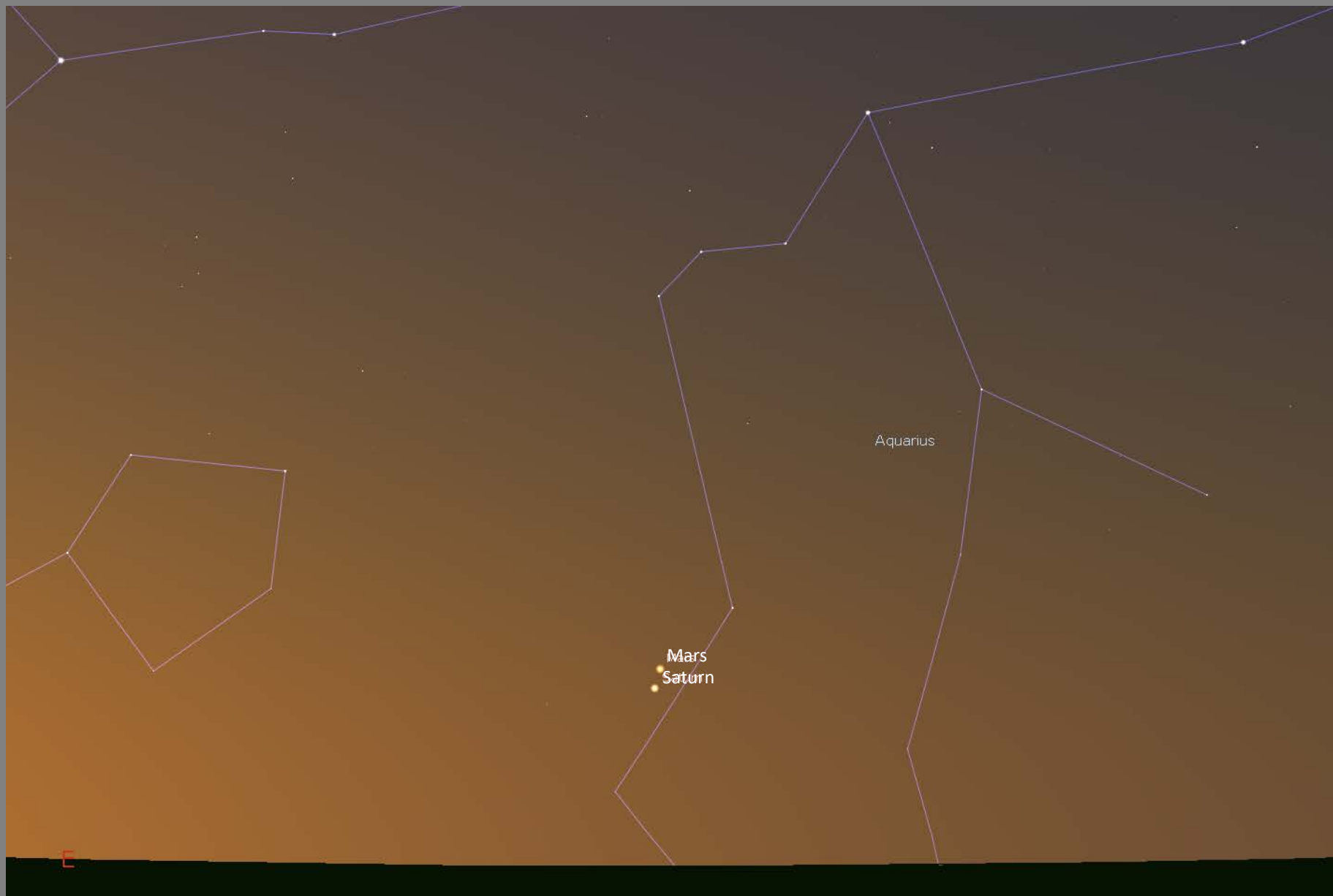
Explore the Universe

observe 3 of each in binos

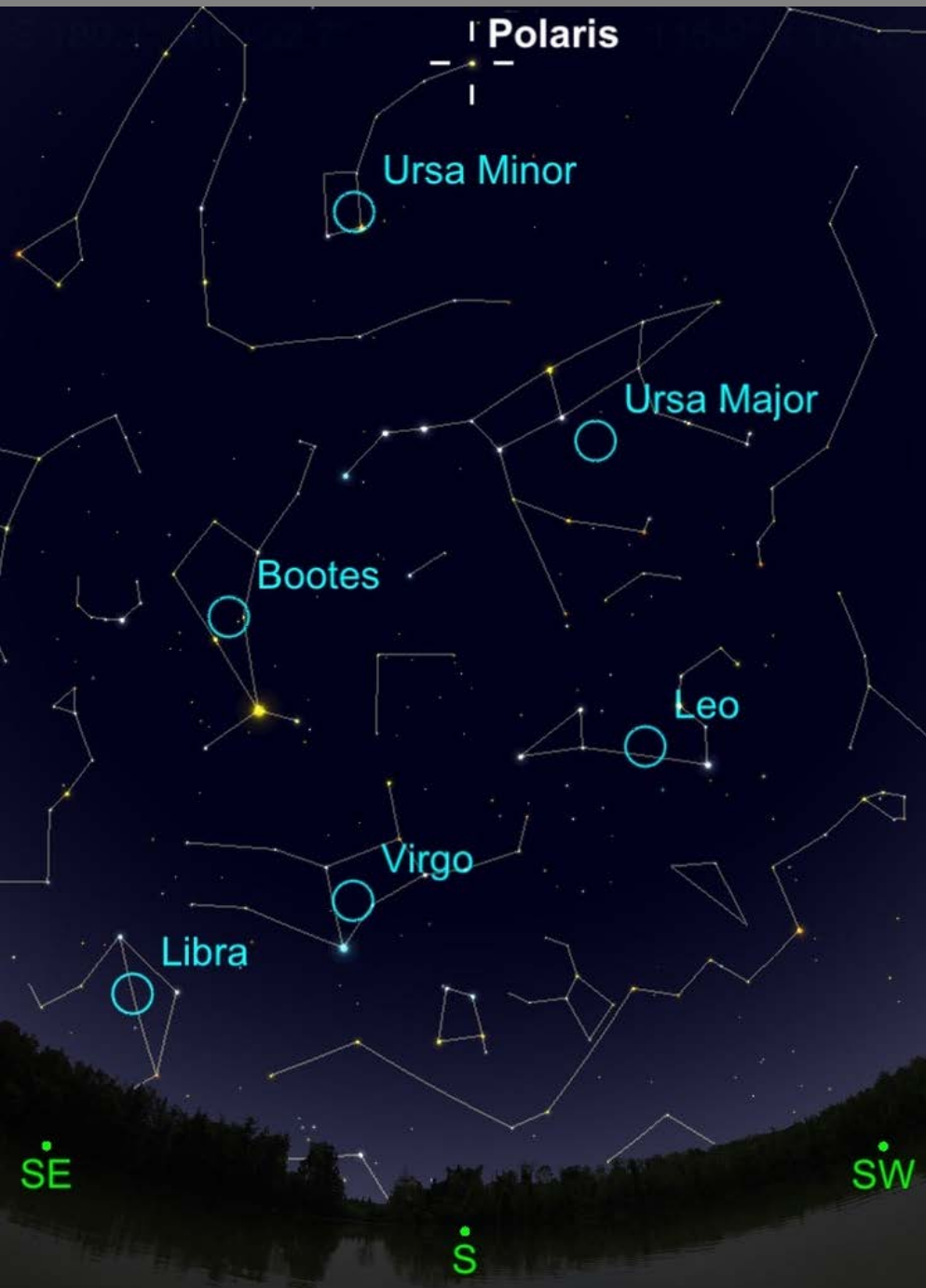
CRATERS

- | | | |
|----------------|---------------|----------------|
| 1. Aristoteles | 5. Gassendi | 10. Ptolomaeus |
| 2. Clavius | 6. Grimaldi | 11. Theophilus |
| 3. Cleomedes | 7. Petavius | 12. Tycho |
| 4. Copernicus | 8. Plato | |
| | 9. Posidonius | |

challenge



Mars & Saturn conjunction photo opportunity - April 10 @ 6:00 a.m.



Explore the Universe: Spring Constellations





Explore the Universe:

Spring Stars

Ranking:

#3 Arcturus

#14 Spica

#22 Regulus

#37 Dubhe

#48 Polaris

- Denebola

- Zubenelgenubi

- Zubeneshamali

Explore the Universe: Spring Deep-Sky

Melotte 111 (Collinder 256)
Look south of the 4.4 mag. star
 γ Coma Berenices
(view in binoculars in dark sky)



challenge



photo: David Hoskin

Explore the Universe: Double and Multiple Stars

- Mizar, the 2nd mag. middle star in the Big Dipper's handle, is a visual double star and may not be gravitationally bound with 4th mag. Alcor
- a telescope reveals a close-in companion of Mizar
- Mizar A and B, as well as Alcor, are unresolved double stars; in total, a 6-star system
- 8th mag. Sidus Ludoviciana lies between Mizar and Alcor



challenge

photo: David Hoskin

Questions?

photo: David Hoskin