

WITH BINOCULARS AND SMALL TELESCOPES

NGC869	0	The Double Cluster NGC 869 and 884 belongs to the favorites of amateur astronomers. Easy to locate from Cassiopeia.
NGC752	0	Large number of bright stars over one degree. Large and dense cluster. Close to Almach in Andromeda.
M1	¢	A supernova remnant, observed in 1054 by Chinese, Arab and Japanese astronomers. A hazy patch of nebulosity near the star ζ-Tauri.
M43		The companion of the Orion Nebula. Best observed with small telescopes. Appears as a nebulosity surrounding 5 stars.
M34	0	An open cluster with many faint stars. Contains about 100 stars. Use Algol as a reference in the PathFinder.
M36	::	An open cluster, less impressive than M37, one of the three Messier clusters in Auriga.
NGC663	0	A young open cluster in Cassiopeia. About 400 stars. Use the PathFinder function from γ-Phe.
M32	0	The small companion of the Andromeda galaxy. A round and even halo with no details, very distinct and bright core.
M33	0	One of the nicest galaxy to be observed from Earth. Nebulous, moderate in size, faint in the middle and brighter at the edge. A must for astrophotography. Needs a large field.
M35	0	Faint but easy object for binoculars. Composed of approximately 40 stars. Large and scattered.
M37	0	An open cluster best observed with a telescope. A medium-brightness fuzzy patch with a brighter center.
M38	0	M38 is easy to find by star hopping from Elnath. Intermediate between M36 and M37 in terms of the number of stars.
M39	0	An open cluster composed of approximately 40 stars. Large and very scattered. Best reached from Deneb.
M40	**	Winnecke 4 is a faint double star in Ursa Major. Both stars are slightly red. Just above



Megrez, easy to locate.



_Starmap

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MOON CALENDAR



HOW TO USE THE MAP

The map shows what you see looking at the zenith. The apparent inversion of East and West compared to road maps is normal. Hold the map face down above your head, and the cardinal points will be oriented as usual.

As a starting point, face North, holding the map in your eyesight direction, with its North down. As you change the direction, rotate the map accordingly.

The objects listed on the first page can be observed with naked eyes, in clear skies, with moderate light pollution. Close your eyes one minute and let them adapt to darkness. You will be surprised how many more details will be apparent.

Using binoculars, preferably with a tripod, will considerably enhance your star gazing experience. Many deep sky objects like galaxies and clusters will be within reach. Jupiter satellites and Saturn's rings will also be visible. A spectacular experience for beginners in astronomy...

Avoid the nights when the Moon is too bright as its light would make the observation of faint objects difficult.

FOR LARGER TELESCOPES [1]

NGC2244	0	The open cluster located in the Rosette Nebula.
NGC2237		The Rosette Nebula is a very good candidate for large field astrophotography. Bluish center surrounded by red clouds.
NGC7662	¢	The Snowball Nebula is worth a long exposure. A blue structured haze with a still visible central remaining star.
NGC2261	0	The Hubble's Variable Nebula is a reflection nebula illuminated by R Monocerotis. A small comet-shaped fuzzy patch.
IC405		The Flaming Star Nebula is a wonderful object in Auriga. Appears as a haze in the eyepiece. Will need a long exposure.
M52	0	A small open cluster near Caph, in Cassiopeia. Difficult object, rather small and faint with a round shape.
M74	0	A beautiful spiral galaxy best observed with astrophotography. Beautiful color. A nice but difficult target.
M76	¢	The Little Dumbbell Nebula is a small planetary nebula reserved for advanced astrophotographer. Appears as a haze with a central bar in the eye piece.
M77	0	A nice spiral galaxy with a faint core. It appears as a large spiral with broad arms. Best revealed though long exposures.
M78	¢	A faint and small planetary nebula in Orion. A small object best observed with astrophotography. Appears as a nebulosity surrounding 2 stars in the eye piece.
M82	0	The Cigar Galaxy looks very elongated. Difficult to see even in the eyepiece. Generally

(1) In order to keep the map readability these objects are not displayed on the map

appears on photos of its neighbor M81.