



Appendix: For Beginners Only

All celestial objects described in the book are, in perfect observing conditions, seen in 10×50 binoculars and therefore seen in any small amateur telescope. The author has seen them all through such binoculars. The observational data were gathered for several years on Bloška planota (Slovenia), which at that time belonged to Class 2 of the Bortle scale. But in spite of the very dark and calm sky you have to be an experienced observer in order to see many of them. What does it mean to be an experienced observer, after all?

An experienced observer has seen many celestial objects through different types and sizes of the telescopes. That is why he or she is well aware that binoculars have to be mounted on a stable tripod in order to make the best use of their potentials. An experienced observer always waits for his or her eyes to become adapted for night vision. An experienced observer always takes enough time to observe the chosen object. The key word here is *enough*. For some easy and bright double stars it is enough to observe them for five minutes, but to see the faintest celestial objects on the border of visibility of the binoculars or as many details as possible in some open cluster or elusive diffuse nebula, you need – after your eyes fully adapt to night vision – half or maybe a whole hour.

An experienced observer is patient like a cat and does not run from object to object. An experienced observer makes essential observations only when the chosen object is near its culmination. And last but not least, an experienced observer uses all observing techniques.

For all of you, who are only beginning your observational career and do not see yet how the sky lies, here is a list of 45 of the most easily seen and attractive celestial objects, which are also easy to find. If you read carefully the instructions beside the descriptions you will start your hobby with little hassle and gather some observing experiences easily and with great enjoyment. And then you can go on! Objects are listed seasonally, as they appear high in the evening sky.

Spring Objects

Name	Type	Constellation	Page Reference
M 81/82	Spiral galaxies	Ursa Major	xxx
Mizar	Double star	Ursa Major	xxx
M 101	Spiral galaxy	Ursa Major	xxx
M65/66	Spiral galaxies	Leo	xxx
Mellote 111	Open cluster	Coma Berenices	xxx

Summer Objects

Kappa Her	Double star	Hercules	3xxx
M 13	Globular cluster	Hercules	xxx
M 4	Globular cluster	Scorpius	xxx
M 6	Open cluster	Scorpius	xxx
M 7	Open cluster	Scorpius	xxx
Nu Dra	Double star	Draco	xx
IC 4665	Open cluster	Ophiuchus	xxx
M 8	Bright nebula	Sagittarius	xxx
M 20	Bright nebula	Sagittarius	xx
M 22	Globular cluster	Sagittarius	xxx
M 24	Star cloud	Sagittarius	xxx
Delta Lyr	Double star	Lyra	xxx
Theta Ser	Double star	Serpens	xxx
M 27	Planetary nebula	Vulpecula	xxx
Cr 399	Open cluster	Vulpecula	xxx
Albireo	Double star	Cygnus	xxx
M 39	Open cluster	Cygnus	xxx

Autumnal Objects

Mu Cep	Variable star	Cepheus	xxx
M 15	Globular cluster	Pegasus	xxx
NGC 253	Spiral galaxy	Sculptor	xxx
M 31	Spiral galaxy	Andromeda	xxx
NGC 752	Open cluster	Andromeda	xxx
M 33	Spiral galaxy	Triangulum	xxx
Mira	Variable star	Cetus	xxx
Alpha Per	Open cluster	Perseus	xxx
Algol	Variable star	Perseus	xxx
Double Cluster	Open clusters	Perseus	xxx

Winter Objects

Pleiades	Open cluster	Taurus	xxx
Hyades	Open cluster	Taurus	xxx
M 42	Bright nebula	Orion	xxx
M 36/37/38	Open cluster	Auriga	xxx
M 35	Open cluster	Gemini	xxx
M 41	Open cluster	Canis Major	xxx
M 44	Open cluster	Cancer	xxx
M 67	Open cluster	Cancer	xxx



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