

HAS Novice 15: Object list

Winter objects: Jan-Feb-Mar

- These objects are visible before midnight during the winter months at the HAS dark site.

Class	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Mag	PSA	TLO	NW
Open	M 45 Pleiades	NGC 1432	Tau	03h47m00.0s	+24°07'00"	1.5	15	64	114
Neb	M 42 Orion Nebula	NGC 1976	Ori	05h35m18.0s	-05°23'00"	4.0	16	52	115
Star	Canopus	Alpha Car	Car	06h23m57.1s	-52°41'44"	-0.7	29	--	179
Open	M 41	NGC 2287	CMa	06h46m01.0s	-20°45'24"	5.0	27	82	116

PSA: page# in Pocket Sky Atlas; TLO: page# in Turn Left at Orion 5th ed.; NW: page # in NightWatch, 4th ed.

Spring objects: Apr-May-Jun

- These objects are visible before midnight during the spring months at the HAS dark site.

Class	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Mag	PSA	TLO	NW
Open	M 44 Beehive	NGC 2632	Cnc	08h40m24.0s	+19°40'00"	3.9	24	92	117
Glob	Omega Centauri	NGC 5139	Cen	13h26m46.0s	-47°28'36"	3.9	49	238	185
Glob	M 4	NGC 6121	Sco	16h23m36.0s	-26°31'30"	5.4	57	152	107

PSA: page# in Pocket Sky Atlas; TLO: page# in Turn Left at Orion 5th ed.; NW: page # in NightWatch, 4th ed.

Summer objects: Jul-Aug-Sep

- These objects are visible before midnight during the summer months at the HAS dark site.

Class	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Mag	PSA	TLO	NW
Open	M 7	NGC 6475	Sco	17h53m51.0s	-34°47'36"	2.5	58	92	107
Neb	M 8 Lagoon Nebula	NGC 6523	Sgr	18h04m02.0s	-24°23'14"	5.0	67	146	107
Dvar	Albireo	Beta 1 Cyg	Cyg	19h30m43.3s	+27°57'35"	3.1	64	132	109
Con	Delphinus	Constellation	Del	20h41m36.8s	+11°40'15"	5.7	64		108

PSA: page# in Pocket Sky Atlas; TLO: page# in Turn Left at Orion 5th ed.; NW: page # in NightWatch, 4th ed.

Autumn objects: Oct-Nov-Dec

- These objects are visible before midnight during the autumn months at the HAS dark site.

Class	Primary ID	Alternate ID	Con	RA 2000	Dec 2000	Mag	PSA	TLO	NW
Var	Fomalhaut	Alpha PsA	PsA	22h57m39.4s	-29°37'22"	1.2	76	--	110
Gal	M 31 Andromeda Galaxy	NGC 224	And	00h42m44.3s	+41°16'07"	4.3	3	176	112
Open	NGC 869	Double Cluster	Per	02h19m00.0s	+57°07'42"	4.3	2	187	118
Open	NGC 884	Double Cluster	Per	02h22m18.0s	+57°08'12"	4.4	2	187	118

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Class Key:	Gal: galaxy	DbI: double star	Neb: nebula	Var: variable star
	Glob: globular star cluster	Dvar: variable double	Open: open star cluster	

Rules: Observe and log each object at the HAS Dark Site. On the website, create a dark site log report for each observing session. Some Novice list objects can be seen with binoculars or naked eye. Goto telescopes are allowed. See observation log instructions for Goto restrictions on silver and gold levels of the Texas 45 Full Progression. Email your completed observation log to Rene Gedaly at texas45@astronomyhouston.org. After verification, you will be presented your award at the HAS General Meeting and your name will be added to the HAS Texas 45 Honor Roll on the [website](#). Clear skies!

HAS Novice 15: Observation log

Winter objects Record observation data for all objects below. For seeing and transparency values, see <https://www.astroleague.org/content/seeing-and-transparency-guide>

Object	Date & Time observed	Seeing	Transparency	Aperture (mm)	Eyepiece (mm)	Dark Site Log Date	Description
M45 Pleiades NGC 1432							
M42 Orion Nebula NGC 1976							
Canopus Alpha Carinae							
M41 NGC 2287							

Spring objects Record observation data for all objects below. For seeing and transparency values, see <https://www.astroleague.org/content/seeing-and-transparency-guide>

Object	Date & Time observed	Seeing	Transparency	Aperture (mm)	Eyepiece (mm)	Dark Site Log Date	Description
M44 Beehive NGC 2632							
NGC 5139 Omega Centauri							
M4 NGC 6121							

HAS Novice 15: Observation log

Summer objects Record observation data for all objects below. For seeing and transparency values, see <https://www.astroleague.org/content/seeing-and-transparency-guide>

Object	Date & Time observed	Seeing	Transparency	Aperture (mm)	Eyepiece (mm)	Dark Site Log Date	Description
M 7 NGC 6475							
M8 Lagoon Nebula NGC 6523							
Albireo Beta Cygni							
Delphinus constellation							

Autumn objects Record observation data for all objects below. For seeing and transparency values, see <https://www.astroleague.org/content/seeing-and-transparency-guide>

Object	Date & Time observed	Seeing	Transparency	Aperture (mm)	Eyepiece (mm)	Dark Site Log Date	Description
Fomalhaut Alpha Piscis Austrini							
M31 Andromeda Galaxy							
NGC 869 Double Cluster							
NGC 884 Double Cluster							