

HAS Novice 30: 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 35	NGC 2168	Gem	06h09m00.0s	+24°21'00"	5.6	25	72	117
OC	Northern Jewel Box	NGC 2362	CMa	07h18m41.0s	-24°57'18"	4.0	27	86-87	--
Open	M 46	NGC 2437	Pup	07h41m46.0s	-14°48'36"	6.6	26	84	116
Gal	Needle Galaxy	NGC 4565	Com	12h36m20.8s	+25°59'15"	10.1	45	--	103

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
Gal	Centaurus A	NGC 5128	Cen	13h25m27.7s	-43°01'07"	7.8	49	239	--
Gal	M 51 Whirlpool Galaxy	NGC 5194	CVn	13h29m52.3s	+47°11'40"	5.4	43	204	101
Glob	M 5	NGC 5904	Ser	15h18m34.0s	+02°05'00"	5.7	55	124	106
Glob	M 13 Keystone Cluster	NGC 6205	Her	16h41m41.0s	+36°27'36"	5.8	52	120	105

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 6 Butterfly Cluster	NGC 6405	Sco	17h40m20.0s	-32°15'12"	4.6	58	156	107
Asterism	Coathanger	Collinder 399	Vul	19h25m24.0s	+20°11'00"	4.8	65	139	108,109
Glob	M 15	NGC 7078	Peg	21h29m58.0s	+12°10'00"	6.3	75	164	111

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
Con	Grus, the constellation		Gru	22h27m23.5s	-46°21'07"	4.8	79	--	177
Doub	Beta PsA	17 PsA	PsA	22h31m30.4s	-32°20'46"	4.3	76	--	--
Open	ET Cluster	NGC 457	Cas	01h19m35.0s	+58°17'12"	5.1	3	193	118
Var	Achernar	Alpha Eri	Eri	01h37m43.0s	-57°14'13"	0.4	8	--	181

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

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 30: 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
M 35 NGC 2168							
NGC 2362 Northern Jewel Box							
M 46 NGC 2437							
NGC 4565 Needle Galaxy							

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
Centaurus A NGC 5128							
M51 Whirlpool Galaxy NGC 5194							
M 5 NGC 5904							
M13 Keystone Cluster NGC 6205							

HAS Novice 30: 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 6 Butterfly Cluster NGC 6405							
Coathanger Collinder 399							
M 15 NGC 7078							

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
Grus, the constellation							
Beta PsA 17 PsA							
ET Cluster NGC 457							
Achernar Alpha Eri							