

*SEASON:*

*FALL*

## ANDROMEDA (And)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m.s	DEC °,'	m_v	Size "	Comment
	7662	R011	S002	C022	H394 (4,18)			F	And	PN	23:25.9	42.33	9.2	20	*Light Blue Snowball; annular at high power
	891	R012	S001	C023	H036 (5,19)			F	And	G-Sb	02:22.6	42.21	10	13.5x2.8	*Faint, classic edge-on with dust lane
	752			C028	H031 (7,32)			F	And	OC	01:57.8	37.41	5.7	50	Old, loose OC south of Gamma And.
	404				H014 (2,224)	T005		F	And	Gxy	01:09.2	35.43	10	3.5x3.5	Mirach's Ghost, Lost Pearl Galaxy, 6' NW Bet AND

## AQUARIUS (Aqr)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m.s	DEC °,'	m_v	Size "	Comment
	7009	R001	S004	C055	H377 (H IV-1)			F	Aqr	PN	21:04.2	-11.02	8.3	25	*Saturn Neb. Small bright green oval
	7293	R002	S005	C063				F	Aqr	PN	22:29.6	-20.48	6.5	12'50"	*Helix Neb. Large, diffuse. Use filter

## ARIES (Ari)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m.s	DEC °,'	m_v	Size "	Comment
	772	R014	S006		H032 (1,112)	T008		F	Ari	G-Sb	01:59.3	19.01	10.3	7.1x4.5	Fiddlehead Galaxy, Diffuse spiral galaxy

## CASSIOPEIA (Cas)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m.s	DEC °,'	m_v	Size "	Comment
	Cr-463						D005	F	Cas	OC	01:45.7	71.49	5.7	57	Loch Ness Monster, Collinder 463
	559			C008	H019 (7,48)			F	Cas	OC	01:29.5	63.18	9.5	4	Ghost's Goblet OC
	654						D004	F	Cas	OC	01:44.0	61.53	6.5	6	Fuzzy Butterfly, 80* Tr II2r, 14 Myr young
	1289	R010						F	Cas	PN	03:10.3	61.19	12.3	34	Dim oval smudge; use nebula filter
	663	R009	S015	C010	H029 (6,31)			F	Cas	OC	01:46.0	61.15	7.1	16	Horse Hoof OC, 80*; look for NGC's 654 and 659 nearby
	7790				H399 (7,56)		D109	F	Cas	OC	23:58.4	61.13	8.5	5	Widow's Web
	7635	R004		C011				F	Cas	EN	23:20.7	61.12	-	15x8	Bubble Neb. Very faint. ½dg SW of M52
	St-2						D006	F	Cas	OC	02:14.7	59.29	4.4	60	9 (Stitchpunks)
	vdB-1						D001	F	Cas	BN	00:11.0	58.46	-	5x5	Van den Bergh 1 = LBN 578 reflection Neb., SE of Beta Cas
	457	R008	S014	C013	H016 (1,42)			F	Cas	OC	01:19.1	58.2	6.4	13	Owl/E.T./Phi Cas. OC. Rich 80*, One of the best in Cas.
	7789	R005	S016		H398 (6,30)	T108		F	Cas	OC	23:57.0	56.44	6.7	16	*White Rose Cl.300dg, faint very rich.
	281	R007	S013			T003		F	Cas	EN	00:52.8	56.36	7.8	35x30	Pacman Neb. Large faint, near Eta Cas . Use UHC filter
	147			C017				F	Cas	EG	00:33.2	48.3	9.3	13x8	Dwarf Companions to M31; Paired with NGC 185
	185	R006	S012	C018	H005 (2,707)			F	Cas	G-E0	00:39.0	48.2	11.7	2x2	Paired with NGC 147; Dwarf companion to M31
	225				H007 (8,78)	T002		F	Cas	OC	00:43.3	61.46	7	15	2 x OC NW of γ Cas, at the Broken Heart (Stock 24) cluster
	189					T001		F	Cas	OC	00:39.3	61.06	8.8	5	SW of T002, discovered by Caroline Herschel
	659				H028 (8,65)	T007		F	Cas	OC	01:44.2	60.4	7.9	6	OC NE of δ Cas, Ying Yang Cluster

CEPHEUS (Cep)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m:s	DEC °,'	m_v	Size "	Comment
	Sh2-155			C009				F	Cep	BN	22:56.8	62.37	-	50x10	Cave Nebula
	7538						D108	F	Cep	BN	23:13.5	61.31	-	90x60	Northern Lagoon
	7354						D106	F	Cep	PN	22:40.3	61.17	12.2	2200x1800	3° NE of δ Cephei,
	7510				H392 (7,44)		D107	F	Cep	OC	23:11.1	60.34	7.9	7	Dormouse
	7380				H389 (8,77)	T106		F	Cep	OC	22:47.2	58.07	7.2	20	Harry Potter's Golden Snitch

CETUS (Cet)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m:s	DEC °,'	m_v	Size "	Comment
	584				H020 (1,100)	T006		F	Cet	Gxy	01:31.2	6.52	10.5	2x4.1	Little Spindle Galaxy
	I-1613			C051				F	Cet	IG	01:04.8	2.07	9.3	12x11	The Scarecrow, irregular barred dwarf Gxy
	936	R016	S024		H038 (4,23)		D007	F	Cet	G-SBa	02:27.6	-1.09	10.1	5.2x4.4	Darth Vader's *fighter; Near M77; NGC 941 in the same field
	246	R015	S023	C056	H008 (5,25)			F	Cet	PN	00:47.0	-11.53	8	3'45"	Skull Nebula; Faint (close to 11m); dark mottling. Low SB
	247			C062	H009 (5,20)			F	Cet	SG	00:47.1	-20.46	9.1	20x7	Milkweed Seed Gxy; 3° SE of Beta Ceti
	908				H037 (1,153)	T009		F	Cet	Gxy	02:23.0	-21.14	10.2	2.7x6.1	Bright spiral, 5° E of Ups Ceti

ERIDANUS (Eri)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m:s	DEC °,'	m_v	Size "	Comment
	1535	R022	S052		H053 (4,26)	T024		F	Eri	PN	04:14.2	-12.44	10.4	18	Cleopatra's Eye; bright planetary with blue-grey disk.
	1232	R021	S051			T011		F	Eri	G-Sc	03:09.8	-20.35	9.9	7.8x6.9	Eye of God Galaxy, Face-on spiral; look for NGC 1300 nearb

PEGASUS (Peg)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m:s	DEC °,'	m_v	Size "	Comment
	7331	R003	S078	C030	H388 (1,53)			F	Peg	G-Sb	22:37.1	34.25	9.5	10.7x4.0	<b>Deer Lick Group</b> ; Large, bright spiral Gxy, elong. PA 171dg;
	7335							F	Peg	G-Sa	22:37.3	34.27	14.4	1.7x0.7	Deer
	7340							F	Peg	G-E	22:37.7	34.24	14.7	1.1x0.7	Deer
	7337							F	Peg	G-SBab	22:37.4	34.22	15.2	1.3x0.9	Deer
	7318							F	Peg	G-E2-SB	22:35.6	33.58	14		<b>Stephan's Quintet</b> ; HCG92/Arp319 a:E2 14.3, b:1 SB 3.9
	7319							F	Peg	G-SB	22:36.0	33.58	14.1		HCG 92 / Arp 319 (Stephan's Quintet)
	7317							F	Peg	G-E4	22:35.5	33.56	14.6		HCG 92 / Arp 319 (Stephan's Quintet) E4
	7320							F	Peg	G-SAB	22:36.2	33.5	16.7		HCG 92 / Arp 319 (Stephan's Quintet)
	7814			C043	H400 (2,240)			F	Peg	SG	00:03.3	16.09	10.5	6x2	<b>Little Sombrero</b> / Electric Arc , S of α Peg.
	7479			C044	H391 (1,55)			F	Peg	SG	23:04.9	12.19	11	4x3	<b>Propeller Gxy</b> , Barred spiral NW of γ Peg

PISCES (Psc)

√	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m:s	DEC °,'	m_v	Size "	Comment
	488				H017 ( 3,252)		D003	F	Psc	GX	01:21.8	5.15	10.3	5.5x4.0	Whirligig
						T107		F	Psc	Ast	23:40.0	8	-	5	Little Ladle

## PERSEUS (Per)

v	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m.s	DEC °,'	m_v	Size "	Comment
	869	R017	S079	C014	H034 (6-33)			F	Per	OC	02:19.0	57.08	4.5	18	*Double Cluster -West ; w/ NGC 884 East ; use low power
	884		S080		H035 (6-34)			F	Per	OC	02:22.0	57.08	5.7	18	*Double Cluster -East ; w/ NGC 869 West; use low power
	1491	R019	S082				D014	F	Per	EN	04:03.4	51.19	-	3.0x3.0	(blue) Fossil Footprint; Small fairly faint emission nebula
	1245				H045 (6,25)		D009	F	Per	OC	03:14.7	47.14	8.4	10	Patrick Starfish
	1023	R018	S081		H040 (1,156)	T010		F	Per	G-E7p	02:40.4	39.04	9.5	2.5x7.4	Perseus Lenticular Galaxy, Bright Gxy near M34
	1342				H046 (8,88)		D011	F	Per	OC	03:31.7	37.23	6.7	17	Stingray
						T014		F	Per	OC	03:22.0	49	1.2	185	Alpha Persei Moving Cluster
	1333					T015		F	Per	Neb	03:29.2	31.25	5.7	3x6	Embryo Nebula

## SCULPTOR (Scl)

v	NGC	RASC	SAC	CALD	HER-400	O-HT	O-SD	Season	Con	Type	R.A. H:m.s	DEC °,'	m_v	Size "	Comment
	253	R013	S086	C065	H010 (5,1)			F	Scl	G-Scp	00:47.6	-25.17	7.1	25.1x7.4	*Sculptor Galaxy; Very large & bright, but low alt.
	300			C070				F	Scl	SG	00:54.9	-37.41	8.7	20x13	Southern Pinwheel, NE of $\alpha$ Phoenix
	55			C072				F	Scl	SG	00:14.9	-39.11	7.9	32x6	In Scl Group
	288				H012 (6,20)	T004		F	Scl	GC	00:53.0	-26.36	8.1		N of $\alpha$ Sculptor