

## OAOG Challenge - Level 2 Object List

NGC / IC	Messier	Const.	Type	R.A.	Dec.	Mv	Size	No *	GX Type	Level	Observe	Meridian	Photo	Name
205	M110	AND	GX	00:40:23	41:41:01	8	16		E	2	All Year	Aug13-Oct1-Dec28	All Year	
752		AND	OC	01:57:47	37:41:01	5.7	49	77		2	Apr25-Apr19	Aug27-Oct21-Jan13	May25-Apr9	
6709		AQL	OC	18:51:29	10:20:55	6.7	12	111		2	All Year	Jun5-Jul5-Aug25	Jan12-Dec24	
6981	M72	AQR	GC	20:53:28	-12:32:04	8.6	2.9			2	Mar18-Jan7	Jul5-Aug5-Oct26	Apr14-Dec29	
7009		AQR	PN	21:04:10	-11:22:05	8	0.5			2	Mar21-Jan11	Jul7-Aug7-Oct30	Apr17-Jan1	Saturn Nebula
1502		CAM	OC	04:07:42	62:20:09	5.7	7.9	63		2	All Year	Sep20-Nov23-Feb7	All Year	
2403		CAM	GX	07:36:56	65:36:03	8.5	21		Sc	2	All Year	Oct30-Jan15-Mar19	All Year	
7099	M30	CAP	GC	21:40:22	-23:11:06	8	5.8			2	May15-Jan5	Jul13-Aug17-Nov12	Jun7-Dec25	
457		CAS	OC	01:19:05	58:20:06	6.4	12	204		2	All Year	Aug20-Oct11-Jan5	All Year	Owl Cluster
581	M103	CAS	OC	01:33:11	60:42:07	7.4	5.8	172		2	All Year	Aug23-Oct15-Jan8	All Year	
654		CAS	OC	01:44:05	61:53:07	6.5	4.7	83		2	All Year	Aug25-Oct17-Jan10	All Year	
663		CAS	OC	01:45:59	61:15:07	7.1	15	108		2	All Year	Aug25-Oct18-Jan10	All Year	
7654	M52	CAS	OC	23:24:10	61:35:02	7	11	173		2	All Year	Jul31-Sep12-Dec11	All Year	Cas. Salt-and-Pepper
7789		CAS	OC	23:56:58	56:44:03	6.7	15	583		2	All Year	Aug6-Sep20-Dec19	All Year	
6939		CEP	OC	20:31:22	60:37:54	7.8	7.9	301		2	All Year	Jun30-Jul30-Oct16	All Year	
IC1396		CEP	CN	21:39:04	57:29:57	~3.5	160			2	All Year	Jul13-Aug16-Nov11	All Year	Elephant Trunk
7510		CEP	OC	23:11:28	60:34:02	7.9	3.9	75		2	All Year	Jul29-Sep9-Dec8	All Year	
1068	M77	CET	GX	02:42:41	-00:01:12	8.8	6.9		Sb	2	Jul9-Mar25	Sep4-Nov1-Jan22	Jul17-Mar17	
2362		CMA	CN	07:18:49	-24:57:15	4.1	7.9			2	Sep17-Apr22	Oct26-Jan10-Mar15	Sep28-Apr12	Mexican Jumping Star
2682	M67	CNC	OC	08:50:25	11:48:42	7	29	324		2	Sep3-Jun6	Nov13-Feb2-Apr1	Sep11-May29	
4826	M64	COM	GX	12:56:42	21:40:52	8.6	7.4		Sb	2	Oct11-Oct1	Jan4-Apr6-May14	Oct20-Sep7	Black Eye Galaxy
5024	M53	COM	GC	13:12:54	18:09:53	8	9.5			2	Oct17-Oct2	Jan9-Apr10-May16	Oct26-Sep7	
4258	M106	CVN	GX	12:19:01	47:17:49	8.3	17		Sb	2	All Year	Dec26-Mar27-May7	All Year	
4736	M94	CVN	GX	12:50:55	41:06:49	8.2	4.7		Sb	2	All Year	Jan3-Apr4-May13	All Year	
5055	M63	CVN	GX	13:15:48	42:01:48	8.6	8.5		Sb	2	All Year	Jan9-Apr11-May17	All Year	Sunflower Galaxy
6819		CYG	OC	19:41:16	40:10:51	7.3	4.7	929		2	All Year	Jun19-Jul17-Sep22	All Year	
6826		CYG	PN	19:44:46	50:30:51	8.8	0.5			2	All Year	Jun20-Jul18-Sep24	All Year	Blinking Nebula

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7092	M39	CYG	OC	21:32:10	48:25:56	5	29	28		2	All Year	Jul12-Aug15-Nov9	All Year	
6543		DRA	PN	17:58:34	66:37:47	8.1	0.4			2	All Year	May14-Jun21-Jul26	All Year	Cat Eye Nebula
2392		GEM	PN	07:29:13	20:54:54	9.1	0.8			2	Aug13-May29	Oct28-Jan13-Mar17	Aug21-May21	Eskimo Nebula
2420		GEM	OC	07:38:31	21:33:54	8.3	9.5	304		2	Aug14-Jun1	Oct30-Jan15-Mar19	Aug22-May24	
3242		HYA	PN	10:24:49	-18:38:06	7.7	0.7			2	Oct15-May30	Dec2-Feb26-Apr18	Oct25-May21	Ghost of Jupiter Nebula
4590	M68	HYA	GC	12:39:31	-26:44:56	8	8.5			2	Nov20-Jun16	Dec31-Apr1-May11	Dec2-Jun3	
5236	M83	HYA	GX	13:37:00	-29:51:53	8	9.5		S	2	Dec6-Jun24	Jan15-Apr16-May20	Dec21-Jun8	Southern Pinwheel Galaxy
2903		LEO	GX	09:32:13	21:29:53	9	12		S	2	Sep3-Jun25	Nov21-Feb13-Apr8	Sep11-Jun14	
3623	M65	LEO	GX	11:18:55	13:04:53	9.3	9.5		Sa	2	Sep29-Jul19	Dec13-Mar12-Apr27	Oct8-Jul2	Leo Triplet Galaxy
3627	M66	LEO	GX	11:20:13	12:58:53	9	8.5		Sb	2	Sep30-Jul19	Dec13-Mar12-Apr27	Oct8-Jul3	Leo Triplet Galaxy
1904	M79	LEP	GC	05:24:30	-24:33:19	8.4	7.4			2	Aug27-Apr2	Oct4-Dec12-Feb22	Sep6-Mar23	
6720	M57	LYR	PN	18:53:35	33:01:51	9.7	1.3			2	All Year	Jun6-Jul5-Aug26	All Year	Ring Nebula
6779	M56	LYR	GC	19:16:35	30:10:52	8	4.7			2	All Year	Jun13-Jul11-Sep8	All Year	
2244		MON	OC	06:32:24	04:51:50	4.8	23	46		2	Aug15-May8	Oct17-Dec30-Mar6	Aug22-May1	
2264		MON	CN	06:41:06	09:52:51	3.9	59			2	Aug12-May13	Oct19-Jan1-Mar8	Aug20-May6	Cone Nebula
2323	M50	MON	OC	07:03:13	-08:20:12	6	19	15		2	Aug30-May4	Oct23-Jan6-Mar12	Sep7-Apr26	Heart-Shaped Cluster
6218	M12	OPH	GC	16:47:11	-01:57:01	8	9.5			2	Dec15-Nov21	Apr3-Jun3-Jun28	Dec25-Nov7	
6254	M10	OPH	GC	16:57:05	-04:06:00	7	7.9			2	Dec19-Nov22	Apr9-Jun6-Jul1	Dec29-Nov7	
6266	M62	OPH	GC	17:01:11	-30:06:52	6.5	8.5			2	Jan26-Sep28	Apr12-Jun7-Jul3	Feb20-Aug20	
6273	M19	OPH	GC	17:02:35	-26:15:53	7	4.7			2	Jan17-Oct13	Apr12-Jun7-Jul3	Feb5-Sep13	
6333	M9	OPH	GC	17:19:11	-18:30:56	8	8.5			2	Jan9-Nov7	Apr22-Jun11-Jul9	Jan24-Oct19	
6402	M14	OPH	GC	17:37:35	-03:15:01	9	5.8			2	Dec28-Dec4	May3-Jun16-Jul16	Jan7-Nov22	
IC4665		OPH	OC	17:46:17	05:42:56	4.2	40	57		2	Dec21-Dec15	May8-Jun18-Jul20	Dec31-Dec4	
6633		OPH	OC	18:27:41	06:33:55	4.6	26	159		2	Dec30-Dec25	May27-Jun29-Aug11	Jan10-Dec15	
1973		ORI	NB	05:35:06	-04:44:13	?	4.7			2	Aug11-Apr21	Oct6-Dec15-Feb24	Aug19-Apr14	
1981		ORI	OC	05:35:12	-04:26:13	4.6	24			2	Aug11-Apr22	Oct6-Dec15-Feb24	Aug19-Apr14	
1977		ORI	NB	05:35:30	-04:52:14	?	19			2	Aug12-Apr21	Oct6-Dec15-Feb24	Aug19-Apr14	

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2068	M78	ORI	NB	05:46:42	00:02:48	8	7.9			2	Aug10-Apr27	Oct8-Dec18-Feb26	Aug18-Apr19	
1528		PER	OC	04:15:24	51:14:05	6.4	23	165		2	All Year	Sep21-Nov25-Feb8	May29-May25	
2447	M93	PUP	OC	07:44:37	-23:52:13	6.2	19	36		2	Sep21-Apr27	Oct31-Jan17-Mar20	Oct1-Apr18	Butterfly Cluster
2451		PUP	OC	07:45:25	-37:58:15	2.8	44	153		2	Oct18-Apr2	Oct31-Jan17-Mar20	-	
2527		PUP	OC	08:05:19	-28:10:13	6.5	21	45		2	Sep30-Apr26	Nov4-Jan22-Mar24	Oct12-Apr15	
253		SCL	GX	00:47:34	-25:17:16	7.2	26		Sc	2	Jul11-Feb8	Aug15-Oct3-Dec30	Jul21-Jan28	Sculptor Galaxy
6093	M80	SCO	GC	16:16:59	-22:58:53	7.2	8.5			2	Dec31-Oct1	Mar18-May27-Jun20	Jan14-Sep2	
6231		SCO	CN	16:53:59	-41:47:48	2.6	230			2	-	Apr8-Jun5-Jun30	-	
6416		SCO	OC	17:44:23	-32:20:52	5.7	17	304		2	Feb17-Oct9	May7-Jun18-Jul19	Mar30-Aug25	
IC4756		SER	OC	18:38:59	05:26:55	5.4	51	466		2	Jan2-Dec26	Jun1-Jul2-Aug17	Jan14-Dec17	
3115		SEX	GX	10:05:13	-07:43:07	8.9	7.1		E	2	Oct2-Jun5	Nov28-Feb21-Apr14	Oct10-May28	Spindle Galaxy
6494	M23	SGR	OC	17:56:47	-19:00:57	7	29	131		2	Jan20-Nov19	May13-Jun21-Jul25	Feb6-Nov2	
6531	M21	SGR	OC	18:04:35	-22:29:56	7	9.5	63		2	Jan29-Nov15	May17-Jun23-Jul29	Feb18-Oct27	
6603	M24	SGR	OC	18:18:23	-18:24:57	4.6	89			2	Jan26-Nov25	May22-Jun26-Aug5	Feb12-Nov10	Delle Caustiche
6613	M18	SGR	OC	18:19:53	-17:07:58	8	6.9	40		2	Jan24-Nov28	May24-Jun27-Aug6	Feb10-Nov13	
6626	M28	SGR	GC	18:24:29	-24:51:56	8	5.8			2	Feb10-Nov16	May26-Jun28-Aug9	Mar6-Oct27	
6637	M69	SGR	GC	18:31:22	-32:20:54	7.5	3.9			2	Mar10-Oct30	May29-Jun30-Aug13	Apr26-Sep21	
6809	M55	SGR	GC	19:39:58	-30:57:58	7	14			2	Apr9-Nov25	Jun19-Jul17-Sep22	May20-Nov1	
598	M33	TRI	GX	01:33:53	30:38:58	5.7	59		Sc	2	May8-Apr7	Aug23-Oct15-Jan8	Jun1-Mar29	Pinwheel Galaxy
3556	M108	UMA	GX	11:11:31	55:39:51	10.1	7.9		Sc	2	All Year	Dec11-Mar10-Apr26	All Year	
5457	M101	UMA	GX	14:03:12	54:20:46	7.8	19		Sc	2	All Year	Jan23-Apr23-May25	All Year	Pinwheel Galaxy
4472	M49	VIR	GX	12:29:49	07:59:55	8.4	7.9		E	2	Oct17-Aug15	Dec29-Mar30-May9	Oct25-Jul22	
4486	M87	VIR	GX	12:30:48	12:23:54	8.6	6.9		E	2	Oct14-Aug26	Dec29-Mar30-May9	Oct22-Jul31	Virgo A / Smoking Gun
4594	M104	VIR	GX	12:40:01	-11:37:00	8.2	6.9		Sbc	2	Nov4-Jul10	Dec31-Apr2-May11	Nov13-Jun25	Sombrero Galaxy
4649	M60	VIR	GX	12:43:37	11:32:54	8.8	3.4		E	2	Oct17-Aug31	Jan1-Apr2-May11	Oct25-Aug6	
6940		VUL	OC	20:34:34	28:17:52	6.3	30	170		2	All Year	Jul1-Jul31-Oct18	All Year	