

	Obs	Object ID	Other ID	Type	R.A.	Dec.	Alt	Azm	Rise	Transit	Set	Const	Size	Mag	SA 2000	
MESSIER		M40	M40 - Winnecke 4, WNC4	Dblist	12 20 00.0	+58 22 00.0	60.84596	323.5819	CPolar	CPolar	CPolar	UMa	0	9	2	
		NGC 4258	M106	Gx	12 18 57.6	+47 18 16.0	64.07975	300.5381	09:34 AM	07:41 PM	05:52 AM	CVn	18.2	8.3	7	
		NGC 4472	M49	Gx	12 29 46.8	+08 00 01.0	48.57844	230.4763	01:24 PM	07:52 PM	02:23 AM	Vir	8.9	8.4	13	
		NGC 5194	M51 - Whirlpool Galaxy, Lord Ross	Gx	13 29 52.5	+47 11 44.5	75.53106	311.4563	10:47 AM	08:52 PM	07:01 AM	CVn	11	8.4	7	
		NGC 4303	M61	Gx	12 22 27.2	+04 33 57.5	44.74056	229.5787	01:28 PM	07:45 PM	02:05 AM	Vir	6	9.7	13	
		NGC 5055	M63 - Sunflower Galaxy	Gx	13 15 49.2	+42 01 46.0	74.77869	289.1135	11:30 AM	08:38 PM	05:50 AM	CVn	12.3	8.6	7	
		NGC 4826	M64 - Black-Eye Galaxy, Sleeping	Gx	12 56 43.7	+21 40 57.6	63.171	237.8571	01:03 PM	08:19 PM	03:39 AM	Com	9.3	8.5	7	
		NGC 4382	M85	Gx	12 25 24.1	+18 11 26.9	55.43638	242.902	12:45 PM	07:47 PM	02:54 AM	Com	7.1	9.2	13	
		NGC 4736	M94	Gx	12 50 53.1	+41 07 12.0	70.15905	285.4068	11:12 AM	08:13 PM	05:17 AM	CVn	11	8.2	7	
		NGC 5457	M101 - Pinwheel Galaxy	Gx	14 03 12.5	+54 20 56.1	73.44023	344.1758	CPolar	CPolar	CPolar	UMa	26.9	7.7	2	
		NGC 4594	M104 - Sombrero Galaxy	Gx	12 39 59.5	-11 37 22.9	33.15549	213.8957	02:38 PM	08:02 PM	01:30 AM	Vir	8.9	8.3	14	
		NGC 4579	M58	Gx	12 37 43.6	+11 49 06.0	52.79019	231.7686	01:19 PM	08:00 PM	02:44 AM	Vir	5.4	9.8	14	
		NGC 4621	M59	Gx	12 42 02.3	+11 38 47.9	53.30983	230.2139	01:24 PM	08:04 PM	02:48 AM	Vir	5.1	9.8	14	
		NGC 4649	M60, VV206	Gx	12 43 40.0	+11 33 08.0	53.47804	229.588	01:26 PM	08:06 PM	02:49 AM	Vir	7.2	8.8	14	
		NGC 4374	M84 - Markarian's Chain	Gx	12 25 03.7	+12 53 12.4	51.59503	236.74	01:03 PM	07:47 PM	02:35 AM	Vir	5	9.3	13	
		NGC 4406	M86 - Markarian's chain	Gx	12 26 15.2	+12 57 48.7	51.84665	236.4741	01:04 PM	07:48 PM	02:37 AM	Vir	7.4	9.2	13	
		NGC 4486	M87 - Virgo A, Smoking Gun (activ	Gx	12 30 32.0	+12 29 24.7	52.18066	234.6935	01:10 PM	07:53 PM	02:39 AM	Vir	7.2	8.6	14	
		NGC 4501	M88 - Markarian's Chain	Gx	12 31 59.2	+14 25 12.3	53.86068	236.3785	01:05 PM	07:54 PM	02:47 AM	Com	6.9	9.5	14	
		NGC 4552	M89	Gx	12 35 39.9	+12 33 22.6	53.04157	233.1906	01:15 PM	07:58 PM	02:45 AM	Vir	4.2	9.8	14	
		NGC 4569	M90	Gx	12 36 50.0	+13 09 47.7	53.68932	233.4794	01:14 PM	07:59 PM	02:48 AM	Vir	9.5	9.5	14	
		NGC 4548	M91	Gx	12 35 26.5	+14 29 47.0	54.47643	235.4018	01:08 PM	07:57 PM	02:51 AM	Com	5.4	10.2	14	
		NGC 4192	M98	Gx	12 14 06.5	+14 43 33.9	51.0845	241.8513	12:46 PM	07:36 PM	02:31 AM	Com	9.5	10.1	13	
		NGC 4254	M99 - Pin-Wheel Galaxy, Coma Pir	Gx	12 18 49.5	+14 25 01.1	51.67156	240.2069	12:52 PM	07:41 PM	02:34 AM	Com	5.4	9.8	13	
		NGC 4321	M100	Gx	12 22 55.0	+15 49 21.3	53.36475	240.681	12:51 PM	07:45 PM	02:43 AM	Com	6.9	9.4	13	
		NGC 5272	M3	Gb	13 42 11.3	+28 22 35.0	75.15938	230.1694	01:20 PM	09:04 PM	04:52 AM	CVn	16.2	6.4	7	
		NGC 5024	M53	Gb	13 12 55.2	+18 10 07.2	63.01351	226.4022	01:32 PM	08:35 PM	03:42 AM	Com	12.6	7.7	14	
		NGC 4590	M68	Gb	12 39 28.2	-26 44 31.7	19.36908	206.9433	03:34 PM	08:01 PM	12:33 AM	Hya	12	8.2	21	
		NGC 5236	M83 - Southern Pinwheel	Gx	13 37 00.3	-29 51 51.3	20.23672	193.1172	04:45 PM	08:59 PM	01:16 AM	Hya	11.2	7.6	21	
		NGC 224	M31 - Andromeda Galaxy	Gx	00 42 44.3	+41 16 08.1	-6.18578	20.6327	11:05 PM	08:07 AM	05:08 PM	And	178	3.5	4	
		NGC 221	M32 - A satellite of M31	Gx	00 42 41.9	+40 51 54.2	-6.55877	20.78866	11:08 PM	08:07 AM	05:05 PM	And	7.6	8.2	4	
	NGC 205	M110 - Satellite to M31	Gx	00 40 22.2	+41 41 07.3	-5.63484	20.89231	10:59 PM	08:04 AM	05:09 PM	And	17.4	8	4		
	NGC 581	M103	OC	01 33 23.0	+60 39 00.0	10.04757	7.460004	CPolar	CPolar	CPolar	Cas	6	7.4	1		
CALDWELL		NGC 4039	Antennae, Ring Tail, ESO 572-48	Gx	12 01 53.7	-18 53 09.4	22.36321	219.0334	02:25 PM	07:24 PM	12:27 AM	Crv	3.2	13	13	
		NGC 4038	Antennae, Ring Tail Galaxy, ESO 5	Gx	12 01 53.9	-18 52 27.8	22.37349	219.0392	02:25 PM	07:24 PM	12:27 AM	Crv	2.6	10.7	13	
		NGC 4236		Gx	12 16 44.9	+69 27 30.7	54.20056	340.2545	CPolar	CPolar	CPolar	Dra	18.6	9.7	2	
		NGC 4244		Gx	12 17 29.6	+37 48 25.3	63.35748	279.0386	11:03 AM	07:40 PM	04:20 AM	CVn	16.2	10.2	7	
		NGC 4372		Gb	12 25 45.6	-72 39 28.3	-23.4811	189.9238	*Never			Rises*	Mus	18.6	7.8	25
		NGC 4449		Gx	12 28 11.3	+44 05 37.5	65.95017	293.2692	10:23 AM	07:50 PM	05:22 AM	CVn	5.1	9.4	7	
		NGC 4565		Gx	12 35 41.3	+26 17 09.3	62.35321	252.3144	12:23 PM	07:58 PM	03:37 AM	Com	16.2	9.6	7	
		NGC 4559		Gx	12 35 51.9	+27 55 55.0	63.27217	255.3052	12:15 PM	07:58 PM	03:44 AM	Com	10.5	9.9	7	
		NGC 4631	Herring Galaxy (Nebula), UGC 786	Gx	12 42 07.9	+32 32 29.2	66.58386	263.5401	11:59 AM	08:04 PM	04:13 AM	CVn	15.1	9.3	7	
		NGC 4609		OC	12 42 18.0	-62 59 42.0	-14.0436	192.6471	*Never			Rises*	Cru	5	6.9	25
		NGC 4697		Gx	12 48 35.8	-05 48 01.9	39.31514	214.7552	02:27 PM	08:11 PM	01:58 AM	Vir	6	9.3	14	
		NGC 4755	Jewel Box, Kappa Crusis Cluster	OC	12 53 39.0	-60 21 42.0	-11.1039	192.3217	*Never			Rises*	Cru	10	4.2	25
		NGC 4833		Gb	12 59 35.3	-70 52 31.6	-20.8058	188.0557	*Never			Rises*	Mus	13.5	7.4	25
		NGC 4889		Gx	13 00 08.1	+27 58 35.4	67.80098	248.3557	12:39 PM	08:22 PM	04:09 AM	Com	3	11.4	7	
		NGC 4945		Gx	13 06 33.7	-49 41 28.0	-0.39397	193.9163	07:02 PM	08:29 PM	10:03 PM	Cen	20	9	21	
		NGC 5005		Gx	13 10 56.4	+37 03 30.4	73.58941	270.9889	12:02 PM	08:33 PM	05:08 AM	CVn	5.4	9.8	7	
		NGC 5128	Centaurus A, Hamburger Galaxy	Gx	13 25 27.7	-43 01 08.2	6.89418	192.5063	05:55 PM	08:47 PM	11:43 PM	Cen	18.2	7	21	
		NGC 5139	Omega Centauri	Gb	13 26 47.0	-47 28 53.3	2.602798	191.2558	06:47 PM	08:49 PM	10:58 PM	Cen	36.3	3.7	21	
		NGC 5248		Gx	13 37 32.1	+08 53 08.0	57.68017	206.719	02:29 PM	08:59 PM	03:34 AM	Boo	6.5	10.2	14	
		NGC 5286		Gb	13 46 26.6	-51 22 30.0	-0.59815	187.3679	08:26 PM	09:08 PM	09:58 PM	Cen	9.1	7.6	21	
	NGC 5694		Gb	14 39 36.5	-26 32 17.5	24.82071	178.5835	05:33 PM	10:01 PM	02:34 AM	Hya	3.6	10.2	21		

Obs	Object ID	Other ID	Type	R.A.	Dec.	Alt	Azm	Rise	Transit	Set	Const	Size	Mag	SA 2000
KEPPLER SANNER SHOWPIECE	NGC 4125	UGC 7118	Gx	12 08 06.0	+65 10 00.0	56.14776	333.396	CPolar	CPolar	CPolar	Dra	6	9.7	2
	NGC 4216	UGC 7284	Gx	12 15 54.0	+13 09 00.0	50.26754	239.6163	12:53 PM	07:38 PM	02:27 AM	Vir	7.8	10	13
	NGC 4256	UGC 7351	Gx	12 18 42.0	+65 54 00.0	56.61068	335.6284	CPolar	CPolar	CPolar	Dra	4.1	11.9	2
	NGC 4274	UGC 7377	Gx	12 19 48.0	+29 37 00.0	61.01464	262.1256	11:52 AM	07:42 PM	03:36 AM	Com	6.8	10.4	7
	NGC 4361	ESO 573-PN19	PI	12 24 30.0	-18 47 00.0	25.08057	213.9988	02:47 PM	07:47 PM	12:50 AM	Crv	1.333333	10.9	13
	Mel 111	Cr 256	OC	12 25 00.0	+26 00 00.0	60.19454	254.5719	12:13 PM	07:47 PM	03:25 AM	Com	275	1.8	7
	NGC 4526	Lost Galaxy, UGC 7718	Gx	12 34 00.0	+07 42 00.0	48.96745	228.9348	01:29 PM	07:56 PM	02:27 AM	Vir	7	9.7	14
	NGC 4535	Lost Galaxy, UGC 7727, McLeish's	Gx	12 34 18.0	+08 12 00.0	49.4131	229.2998	01:28 PM	07:56 PM	02:29 AM	Vir	6.9	10	14
	NGC 4536	UGC 7732	Gx	12 34 24.0	+02 11 00.0	44.4887	224.2277	01:48 PM	07:56 PM	02:09 AM	Vir	7.1	10.6	14
	NGC 4666	Superwind-Galaxy, UGC 7926	Gx	12 45 06.0	+00 28 00.0	44.42356	219.7761	02:04 PM	08:07 PM	02:14 AM	Vir	4.5	10.7	14
	NGC 4699	MCG-01-33-013	Gx	12 49 00.0	-08 40 00.0	36.78407	213.0424	02:37 PM	08:11 PM	01:49 AM	Vir	3.8	9.5	14
	NGC 4725	UGC 7989	Gx	12 50 24.0	+25 30 00.0	64.58624	246.5659	12:41 PM	08:12 PM	03:48 AM	Com	10.4	9.4	7
	NGC 4762	UGC 8016	Gx	12 52 54.0	+11 14 00.0	54.55865	226.1593	01:36 PM	08:15 PM	02:57 AM	Vir	8.6	10.3	14
	NGC 4783	3C278, H I 136	Gx	12 54 36.0	-12 34 00.0	33.79911	209.5345	02:56 PM	08:17 PM	01:42 AM	Crv	2.3	11.5	14
	NGC 4782	MCG-02-33-050	Gx	12 54 36.0	-12 34 00.0	33.79911	209.5345	02:56 PM	08:17 PM	01:42 AM	Crv	2.3	11.7	14
	NGC 5466	GCL 27	Gb	14 05 30.0	+28 32 00.0	78.31442	212.3698	01:42 PM	09:27 PM	05:16 AM	Boo	9.2	9.1	7
	NGC 5529	UGC 9127	Gx	14 15 36.0	+36 14 00.0	85.65676	237.9641	01:11 PM	09:37 PM	06:07 AM	Boo	6	11.9	7
	IC 4406	PK 319+15.1	PI	14 22 24.0	-44 09 00.0	7.182315	182.0715	07:06 PM	09:44 PM	12:30 AM	Lup	1.666667	11	21
	IC 1029	UGC 9361	Gx	14 30 43.2	+50 07 36.0	78.48705	357.4778	10:45 AM	09:52 PM	09:04 AM	Boo	1.47	13.4	7
	NGC 5676	UGC 9366	Gx	14 32 48.0	+49 27 00.0	79.17556	359.0826	11:07 AM	09:55 PM	08:46 AM	Boo	3.9	11.2	7
NGC 5689	UGC 9399	Gx	14 35 30.0	+48 44 00.0	79.88958	1.540634	11:26 AM	09:57 PM	08:33 AM	Boo	3.3	11.9	7	
NGC 5728	MCG-03-37-005	Gx	14 42 24.0	-17 15 00.0	34.08694	177.5379	04:59 PM	10:04 PM	03:13 AM	Lib	3.2	11.4	14	
NGC 5792	UGC 9631	Gx	14 58 24.0	-01 05 00.0	49.88996	170.4532	04:22 PM	10:20 PM	04:22 AM	Lib	6.8	11.3	14	