Triple's NGC 100 List

X	List #	NGC/IC #	Object	Galaxy Type	Ra	Dec	Mag	Size	Other Information	Constellation
	1	NGC 2392	Pl Nebula		07h 29.2m	+20d 55'	9.4	47"x43"	C39,Eskimo Neb, Brt Cent Star	GEMINI
	2	NGC 2683	Galaxy	SAb	08h 52.7m	+33d 25'	9.7	9.3'x2.5'		LYNX
	3	NGC 2244	OC/DIF NEB		06h 32.4m	+04d 52'	4.8	27'	W/Rosette Nebula 90' diameter	MONOCEROS
	4	NGC 2264	OC/DIF NEB		06h 41.1m	+09d 53'	3.9	20'		MONOCEROS
	5	NGC 2301	Op Cluster		06h 51.8m	+00d 28'	6.0	15'		MONOCEROS
	6	NGC 2343	Op Cluster		07h 08.3m	-10d 39'	6.7	13'		MONOCEROS
	7	NGC 3585	Galaxy	E5	11h 13.3m	-26d 45'	10.0	2.9'x1.6'		HYDRA
	8	NGC 3521	Galaxy	SAd	11h 05.8m	-00d 02'	9.5	10'x6.5'		HYDRA
	9	NGC 3242	Pl Nebula		10h 24.8m	-18d 38'	7.8	45"x36"	C59	HYDRA
	10	NGC 2768	Galaxy	E6	09h 11.6m	+60d 02'	10.0	6.3'x2.8'		URSA MAJOR
	11	NGC 2841	Galaxy	SAb	09h 22.0m	+50d 58'	9.3	8.1'x3.8'		URSA MAJOR
	12	NGC 3077	Galaxy	I0	10h 03.3m	+68d 44'	9.9	4.6x3.6		URSA MAJOR
	13	NGC 3184	Galaxy	SAcd	10h 18.3m	+41d 25'	9.8	6.9'x6.8'		URSA MAJOR
	14	NGC 5322	Galaxy	E3-4	13h 49.3m	+60d 12'	10.0	5.5'x3.9		URSA MAJOR
	15	NGC 2903	Galaxy	SAbc	09h 32.2m	+21d 30'	8.9	13'x6.6'		LEO
	16	NGC 3384	Galaxy	SBO-	10h 48.3m	+12d 38'	10.0	5.9'x2.6'		LEO
	17	NGC 3521	Galaxy	SAbc	11h 05.8m	-00d 02'	9.2	9.5'x5.0'		LEO
	18	NGC 3628	Galaxy	SAb	11h 20.3m	+13d 36'	9.5	15'x3. 6'		LEO
	19	NGC 3344	Galaxy	SAbc	10h 43.5m	+24d 55'	10.1	6.9'x6.5'		LEO MINOR
	20	NGC 3115	Galaxy	SAO-	10h 05.2m	-07d 43'	9.1	8.3'x3.2'		SEXTANS
	21	IC 2391	Op Cluster		08h 40.2m	-53d 04'	2.5	50'	C85	VELA
	22	IC 2395	Op Cluster		08h 41.1m	-48d 12'	4.6	20'		VELA
	23	NGC 3201	Gl Cluster		10h 17.6m	-46d 25'	6.7	18'	C79	VELA
	24	NGC 3132	Pl Nebula		10h 07.0m	+00d 04'	9.4	84"x53"	brt central star	VELA
	25	NGC 2997	Galaxy	SAc	9h 45.6m	-31d 11'	9.5	8.1'x6.5'		ANTLIA
	26	NGC 4449	Galaxy	IBm	12h 28.2m	+44d 06'	9.5	5.1'x3.7'		CANIS VENATICES
	27	NGC 4490	Galaxy	SBd	12h 30.6m	+41d 38'	9.8	5.9'x3.1'		CANIS VENATICES
	28	NGC 5195	Galaxy	IO	13h 30.0	+47d 16'	9.6	5.4'x4.3'	Companion to M51	CANIS VENATICES
	29	NGC 4214	Galaxy	IAm	12h 15.6m	+36d 20'	9.8	7.9'x6.3'		CANIS VENATICES
	30	NGC 4494	Galaxy	E1-2	12h 31.4m	+25d 47'	9.8	4.8'x3.8'		COMA BERENICES
	31	NGC 4559	Galaxy	SAcd	12h 36.0m	+27d 58'	9.9	10'x4.9'	C36	COMA BERENICES
	32	NGC 4565	Galaxy	SAb	12h 36.3m	+25d 59'	9.5	16'x2.8'	C38, My Favorite	COMA BERENICES
	33	NGC 4725	Galaxy	SAab	12h 50.4m	+25d 30'	9.3	11'x7.9'		COMA BERENICES
	34	Melotte III	Op Cluster		12h 25.0m	+26d 00'	1.8	4.6°	Coma Star Cluster	COMA BERENICES
	35	NGC 5248	Galaxy	SAbc	13h 37.5m	+08d 53'	10.0	6.5'x4.9'	C45	BOOTES
	36	NGC 4216	Galaxy	SAb	12h 15.9m	+13d 09'	10.0	8.3'x2.2'		VIRGO
	37	NGC 4365	Galaxy	E3	12h 24.5m	+07d 19'	9.5	6.2'x4.6'		VIRGO
	38	NGC 4435	Galaxy	SBO	12h 27.7m	+13d 05'	10.0	3.0'x1.9'	Interacts w/4438	VIRGO
	39	NGC 4438	Galaxy	SAO/a	12h 27.8m	+13d 01'	10.1	9.3'x3.9'	Interacts w/4435	VIRGO
	40	NGC 4526	Galaxy	SAO	12h 34.0m	+07d 42'	9.7	7.2'x2.3'		VIRGO
	41	NGC 4535	Galaxy	SAc	12h 34.3m	+08d 12'	9.8	6.8'x5.0'		VIRGO
	42	NGC 4636	Galaxy	EO-1	12h 42.8m	+02d 41'	9.5	6.2'x5.0'		VIRGO
	43	NGC 4697	Galaxy	E6/E4	12h 48.6m	-05d 48'	9.3	6.0'x3.8'	C52	VIRGO

X	List #	NGC/IC #	Object	Galaxy Type	Ra	Dec	Mag	Size	Other Information	Constellation
	44	NGC 4699	Galaxy	SAb	12h 49.0m	-08d 40'	9.6	3.5'x2.7'		VIRGO
	45	NGC 4753	Galaxy	IO	12h 52.4m	-01d 12'	9.9	5.4'x2.9'		VIRGO
	46	NGC 5068	Galaxy	SAcd	13h 18.9m	-21d 02'	9.9	6.9'x6.3'		VIRGO
	47	NGC 4125	Galaxy	E6	12h 08.1m	+65d 11'	9.9	5.1'x3.2'		DRACO
	48	NGC 5866	Galaxy	SAO+	15h 06.5m	+55d 46'	10.1	5.2'x2.3'		DRACO
	49	NGC 6543	Pl Nebula		17h 58.6m	+66d 38'	8.1	23"x17"	C6	DRACO
	50	NGC 6210	Pl Nebula		16h 44.5m	+23d 49'	8.8	48"x8^{o}		HERCULES
	51	IC 4665	Op Cluster		17h 46.3m	+05d 43'	4.2	70'		OPHIUCUS
	52	NGC 6633	Op Cluster		18h 27.7m	+06d 34'	4.6	27'		OPHIUCUS
	53	NGC 6572	Pl Nebula		18h 12.1m	+06d 51'	8.1	16"x13"		OPHIUCUS
	54	NGC 6124	Op Cluster		16h 25.6m	-40d 40'	5.8	40'	C75	SCORPIUS
	55	NGC 6242	Op Cluster		16h 55.6m	-39d 30'	6.4	9'		SCORPIUS
	56	NGC 6281	Op Cluster		17h 04.8m	-37d 54'	5.4	8'		SCORPIUS
	57	NGC 6383	Op Cluster		17h 34.8m	-32d 34'	5.5	4'		SCORPIUS
	58	NGC 6302	Diff Nebula		17h 13.7m	-37d 06'	9.6	83"x24"	C69, Bug Nebula	SCORPIUS
	59	IC 4756	Op Cluster		18h 39.0m	+05d 27'	4.6	56'		SERPANS CAUDA
	60	NGC 6822	Galaxy	IBm	19h 44.9m	-14d 48'	8.6	10'x9.5'	C57	SAGITTARIUS
	61	Collinder 394	Op Cluster		18h 53.5m	-20d 23'	5.6	54'		SAGITTARIUS
	62	NGC 6818	Pl Nebula		19h 44.0m	-14d 09'	9.3	22"x15"		SAGITTARIUS
	63	NGC 6811	Op Cluster		19h 37.0m	+46d 24'	6.8	13'		CYGNUS
	64	NGC 6910	Op Cluster		20h 23.1m	+40d 47'	6.6	8'		CYGNUS
	65	NGC 6871	Op Cluster		20h 05.9m	+35d 47'	5.2	20"		CYGNUS
	66	NGC 6826	Pl Nebula		19h 44.8m	+50d 31'	8.8	27"x24"	C15 Blinking Neb	CYGNUS
	67	NGC 7027	Pl Nebula		21h 07.1m	+42d 14 '	8.5	18"x10"		CYGNUS
	68	NGC 6960	Diff Nebula		20h 50.0m	+31d 00'	~7	3.5^{o}x2.7^{o}	C34 Veil Nebula Supernova remnant	CYGNUS
	69	NGC 7000	Diff Nebula		20h 58.8m	+44d 20'	~4	120'x100'	N. American Nebula	CYGNUS
	70	Stock 1	Op Cluster		19h 35.8m	+25d 13'	5.3	80'		VULPECULA
	71	NGC 6882/5	Op Cluster		20h 12.0m	+26d 29'	5.9	22'	Includes 20Vul	VULPECULA
	72	NGC 6885/2	Op Cluster		20h 12.0m	+26d 29'	5.9	22'	Includes 20Vul	VULPECULA
	73	NGC 6709	Op Cluster		18h 51.5m	+10d 21'	6.7	13'		AQUILA
	74	NGC 6934	Gl Cluster		20h 34.2m	+07d 24'	9.0	5.9'		DELPHINUS
	75	NGC 7293	Pl Nebula		22h 29.6m	-20d 48'	7.3	12'x10'	Helix Neb;O3 filter	AQUARIUS
	76	NGC 188	Op Cluster		00h 44.0m	+85d 20'	8.1	14'		CASSIOPEIA
	77	IC 1396	O C/D Neb		21h 39.1m	+57d 30'	4	170'x140'		CEPHEUS
	78	NGC 7160	Op Cluster		21h 53.7m	+62d 36'	6.1	7'		CEPHEUS
	79	NGC 7243	Op Cluster		22h 15.3m	+49d53'	6.4	21'		LACERTA
	80	NGC 7331	Galaxy	SAbc	22h 37.1m	+34d 25'	9.6	11'x4.0'		PEGASUS
	81	NGC 103	Op Cluster		00h 25.3m	+61d 21'	9.8	5'		CASSIOPEIA
	82	NGC 146	Op Cluster		00h 31.1m	+63d 18'	9.1	7'		CASSIOPEIA
	83	NGC 147	Galaxy	dE5	00h 33.2m	+48d 30'	9.3	13'x8.1'	C17	CASSIOPEIA
	84	NGC 185	Galaxy	dE3	00h 39.0m	+48d 20'	9.1	11'x9.8'	C18	CASSIOPEIA
	85	NGC 225	Op Cluster		00h 43.4m	+61d 47'	7.0	12'		CASSIOPEIA
	86	NGC 281	O C/Dif Neb		00h 52.8m	+56d 37'	7ph	35'		CASSIOPEIA
	87	NGC 436	Op Cluster		01h 15.6m	+58d 49'	8.8	6'		CASSIOPEIA
	88	NGC 457	Op Cluster		01h 19.1m	+58d 20'	6.4	12'	Inc Omega Cass, C13, "ET"	CASSIOPEIA
	89	NGC 654	Op Cluster		01h 44.1m	+61d 53'	6.5	8'		CASSIOPEIA

X	List #	NGC/IC #	Object	Galaxy Type	Ra	Dec	Mag	Size	Other Information	Constellation
	90	NGC 869	Op Cluster		02h 19.0m	+57d 09’	4ph	30’		CASSIOPEIA
	91	IC 1805	O C/Dif Neb		02h 32.7m	+61d 27’	6.5	22’		CASSIOPEIA
	92	NGC 1027	Op Cluster		02h 42.7m	+61d 33’	6.7	20’		CASSIOPEIA
	93	IC 1848	O C/Dif Neb		02h 51.2m	+60d 26’	6.5	12’ Neb=40’		CASSIOPEIA
	94	NGC 7789	Op Cluster		23h 57.0m	+56d 44’	6.7	16’		CASSIOPEIA
	95	NGC 891	Galaxy	SAb ?	02h 22.6m	+42d 21’	10.0	13’x2.8’		ANDROMEDA
	96	NGC 752	Op Cluster		01h 57.8m	+37d 41’	5.7	50’		ANDROMEDA
	97	NGC 7662	Pl Nebula		23h 25.9m	+42d 33’	8.3	32’’x28’’		ANDROMEDA
	98	NGC 925	Galaxy	SAd	02h 27.3m	+33d 35’	10.0	9.8’x6.0’		TRIANGULUM
	99	NGC 247	Galaxy	SAd	00h 47.1m	-20d 46’	8.9	20’x7.4’		CETUS
	100	NGC 1068	Galaxy		02h 42.7m	-00d 01’	8.8	6.9’		CETUS
	101	NGC 744	Op Cluster		01h 58.4m	+55d 29’	7.9	11’		PERSIUS
	102	NGC 869	Op Cluster		02h 19.0m	+59d 09’	3.5	30’	h Persius	PERSIUS
	103	NGC 884	Op Cluster		02h 22.4m	+57d 07’	3.6	30’	χ Persius	PERSIUS
	104	NGC 957	Op Cluster		02h 33.0m	+57d 32’	7.6	11’		PERSIUS
	105	NGC 1023	Galaxy		02h 40.4m	+39d 04’	9.5	8.7’		PERSIUS
	106	NGC 1342	Op Cluster		03h 31.6m	+37d 20’	6.7	17’		PERSIUS
	107	NGC 1499	Diff Nebula		04h 00.7m	+36d 37’	~5	160’x40’	California Nebula	PERSIUS
	108	NGC 1528	Op Cluster		04h 15.4m	+51d 14’	6.4	18’		PERSIUS
	109	Trumpler 2	Op Cluster		02h 37.3m	+55d 59’	5.9	17’		PERSIUS
	110	Melotte 20	Op Cluster		03h 22.0m	+49d 00’	1.2	2.8^{o}	Alpha Persei Cluster	PERSIUS
	111	NGC 1545	Op Cluster		04h 20.9m	+50d 15’	6.2	12’		PERSIUS
	112	NGC 1232	Galaxy	SAc	03h 09.8m	-20d 35’	9.9	7.8’x6.9’		ERIDINUS
	113	NGC 1407	Galaxy	EO	03h 40.2m	-18d 35’	9.8	2.5’x2.5’		ERIDINUS
	114	NGC 1535	Pl Nebula		04h 14.2m	-12d 44’	9.6	48”x42”		ERIDINUS
	115	NGC 2281	Op Cluster		06h 49.3m	+41d 04’	5.4	15’		AURIGA
	116	Hyades	Op Cluster		04h 27.0m	+16d 00’	0.5	6^{o}	C41	TAURUS
	117	NGC 1647	Op Cluster		04h 46.0m	+19d 04’	6.4	40’		TAURUS
	118	NGC 1746	Op Cluster		05h 03.6m	+23d 49’	~6	40’		TAURUS
	119	NGC 1662	Op Cluster		04h 48.5m	+10d 56’	6.4	12’		ORION
	120	NGC 1981	Op Cluster		05h 35.2m	-04d 26’	4.6	28’	In Orion’s Sword	ORION
	121	NGC 1980	Op Cluster		05h 35.4m	-05d 54’	2.5	20’	In Orion’s Sword	ORION
	122	NGC 1977	OC/Diff Neb		05h 35.5m	-04d 52’	4.2	20’	In Orion’s Sword	ORION
	123	NGC 2169	Op Cluster		06h 08.4m	+13d 57’	5.9	6’		ORION
	124	NGC 2194	Op Cluster		06h 13.8m	+12d 48’	9.0	10’	Not in Tirion’s atlas	ORION
	125	NGC 2354	Op Cluster		07h 14.3m	-25d 44’	6.5	20’		CANIS MAJOR
	126	NGC 2362	Op Cluster		07h 18.8m	-24d 57’	4.1	8’	Inc. Tau CMaj	CANIS MAJOR
	127	NGC 2423	Op Cluster		07h 37.1m	-13d 52’	6.7	12’		PUPPIS
	128	NGC 2439	Op Cluster		07h 40.8m	-31d 39’	6.9	9’	Inc. R Pup	PUPPIS
	129	NGC 2451	Op Cluster		07h 45.4m	-37d 58’	2.8	50’	Inc. c Pup	PUPPIS
	130	NGC 2477	Op Cluster		07h 52.3m	-38d 33’	5.8	43’		PUPPIS
	131	NGC 2467	OC/Diff Neb		07h 52.6m	-26d 23’	~7	16’		PUPPIS
	132	NGC 2527	Op Cluster		08h 05.3m	-28d 10’	6.5	22’		PUPPIS
	133	NGC 2440	Pl Nebula		07h 41.9m	-18d 12’	9.4	74”x42”		PUPPIS

Constellations not listed above:

CAPRICORNUS	One Messier
CANIS MINOR	None
CANCER	All are Messiers
CORONA BOREALIS	None
CORVUS	None
CRATER	None
DELPHINUS	Lots more that are >11.0 magnitude
DRACO	Lots more that are >11.0 magnitude
EQUULEUS	None
URSA MINOR	None
LEPUS	One Messier, and others > 11.0 magnitude
LIBRA	None
LYNX	Lots more that are > 11 magnitude
LYRA	None
SAGITTA	All are Messiers
SERPANS CAPUT	None
PISCES	One Messier

The above NGC list consists of objects that are magnitude 10.0 or brighter, and are for the most part, above –40 degrees declination. There are exceptions to the magnitude and declinations, and these exceptions are there to create a more complete list. If these exceptions pose a difficulty, skip them and go on to another object. You can skip up to 33 from this list, and still score 100 objects.

Any small telescope or good pair of binoculars should allow you to find all these objects in a clear sky area. As the sky suffers from light pollution, so will you, and therefore you will require stronger optics.

There are more than 100 objects to allow you to choose your favorites, and to give you a better chance of completing 100 items for your particular location and time of year. The objects are also listed in an order to allow you to search the Western sky first, and the objects should rise in the East for your viewing on any given night. The time of year used as a starting point is May. So, if you are starting in September, you will have to start somewhere down the list, and wait until the next summer to get the first objects on this list. This is done so you can tell right away if you are going to find certain objects. That is, as you go down the list, the first object that is still viewable in the western sky just after sunset, will be the starting point on this list and the items listed below that object will be higher in the western sky, or even as far as the eastern horizon. Of course, the objects below this "starting point" will continue to rise in the east and set in the west as the night progresses.

This list will probably take more than a year to complete, due to the wide sky coverage. I suggest taking your time, making a logbook entry for every object, and maybe even drawing each object. Remember, the more time you spend at the eyepiece, the more details you will see in the object. So, do not cheat yourself out of a beautiful view by rushing through this list. Your logbook entry could include for example, date/time, weather conditions, scope and eyepiece used, seeing conditions, location, friends or family with you, difficulty or ease of finding, finding techniques like which pointer stars did you use, and last but not least, your overall impression of the object to include things like "favorite globular," "hard to make out details," etc. Even include funny anecdotes that may come to mind during the viewing of this object. There are no rules here, make it fun and memorable.

Please let me know how you liked this list and especially if there are any errors. If you are in the Johnson Space Center Astronomical Society (JSCAS), completion of any 100 of these objects will earn you an NGC 100 Certificate.

Best of luck, and clear skies!

Triple Nickel

EMAILS:
WORK: jack.a.nickel@nasa.gov
HOME: triple@houston.rr.com