PLANETARY NEBULAE

Arranged by Right Ascension

SBO Catalog Number	Common Name	Constellation	Epoch 2000 R. A. h m s	Epoch 2000 Dec deg ' "	Visible Mag	Apparent Size (arcmin)	Distance Light Years	Description or Comments	Alternate Catalog Name
76	M 76 Barbell	Per	01 41 59	+ 51 34 36	12	1.5' x 0.8'	3,400	Irregular, 16.5mag *, faintest Messier object	NGC 650
213	NGC 1535	Eri	04 14 16	- 12 44 18	9.3	0.4' x 0.3'	?	Small pale blue/green disk, 11.5 mag center star	NGC 1535
230	NGC2392 Eskimo	Gem	07 29 18	+ 20 54 54	8.3	0.7' x 0.7'	3,000?	Mottling, 1700 yr old, 0.6 ly dia, Brt center star	NGC 2392
240	NGC 3242	Hya	10 24 48	- 18 38 36	9	0.7' x 0.6'	2,500?	Bright, apparent size of Jupiter, actual 0.6 ly	NGC 3242
97	M 97 Owl Neb.	UMa	11 14 45	+ 55 01 48	12	3' x 3'	2,600	1.5 ly across, round, 14 mag. center star	NGC 3587
266	NGC 6210	Her	16 44 33	+ 23 47 18	9.5	0.3' x 0.3'	?	Small bright planetary, featureless blue disk	NGC 6210
277	NGC 6543	Dra	17 58 35	+ 66 38 00	9	0.4' x 0.4'	1,700	Ring-shaped, 11th mag. center star, 0.2 ly across	NGC 6543
281	NGC 6572	Oph	18 12 07	+ 06 50 24	9.5	0.3" x 0.3"	?	Small, bright, blue	NGC 6572
57, 287	M 57 Ring Neb	Lyr	18 53 32	+ 33 01 54	9.5	1.3' x 1.0'	1,500	Smoke ring 0.5 ly dia., 14 mag. star 100K deg K	NGC 6720
291	NGC 6818	Sgr	19 43 54	- 14 08 24	10	0.4' x 0.3'	?	Bright uniform blue disk	NGC 6818
293	NGC 6826	Cyg	19 44 52	+ 50 31 42	9	0.5' x 0.4'	?	Blinking planetary (see M&M) 11 mag. ctr star	NGC 6826
27, 294	M 27	Vul	19 59 35	+ 22 43 06	7.5	8' x 4'	900	Greenish, hourglass shaped, 2 ly dia, 13mag star	NGC 6853
296	NGC7009 Saturn	Aqr	21 04 16	- 11 22 00	8.5	0.4' x 0.2'	3,900	Blue/green ellip. disk, v faint extensions	NGC 7009
304	NGC 7662	And	23 25 54	+ 42 32 12	9	0.5' x 0.4'	5,600	Slightly elliptical, ring shaped with 2nd ring	NGC 7662

DIFFUSE NEBULAE

Arranged by Region and Right Ascension

SBO Catalog Number	Common Name	Constellation	Epoch 2000 R. A. h m s	Epoch 2000 Dec deg ' "	Visible Mag	Apparent Size (arcmin)	Distance Light Years	Description or Comments	Alternate Catalog Name
				Orion (Winter)					
42, 218	M 42 Orion Neb.	Ori	05 35 20	- 05 23 12	4	66' x 60'	1,900	H II, 30,000y old, 30 ly across, stellar nursery	NGC 1976
43	M 43 NE Ori Neb	Ori	05 35 32	- 05 16 06	9	15' x 15'	1,900	Detached portion of M 42, sep. by a dark lane	NGC 1982
78	M 78	Ori	05 46 47	+ 00 03 30	8.3	8' x 6'	1,600	reflection nebula, 2-3 ly across, whispy	NGC 2068
				Sagittarius (Summer)					
20	M 20 Triffid	Sgr	18 02 19	- 23 02 00	6	29' x 27'	5,000	3-lobed emission+refl. neb., O7 ** in ctr is source	NGC 6514
8, 279	M 8 Lagoon Neb	Sgr	18 03 08	- 24 23 00	5	60' x 35'	5,200	Emis. neb. (O5 star) 30 ly dia., w/lane, open clust	NGC 6523
16	M 16 Eagle Neb.	Ser	18 18 49	- 13 46 24	6.5	30' x 30'	8,000	Emis. neb. w/dark patches, open cl, 2 Myrs old	NGC 6611
17, 282	M 17 Omega Neb	Sgr	18 20 44	- 16 10 18	7	25' x 25'	5,700	Emis. neb., horseshoe shaped, w/faint open cl	NGC 6618

CATACLYSMIC

Arranged by Right Ascension

SBO Catalog Number	Common Name	Constellation	Epoch 2000 R. A. h m s	Epoch 2000 Dec deg ' "	Visible Mag	Apparent Size (arcmin)	Distance Light Years	Description or Comments	Alternate Catalog Name
1	Crab Nebula (Supernova)	Tau	05 34 30	+ 22 01 00	8.4	6' x 4'	6,000	1,054 A.D. supernova remnant, .03s pulsar,10x7 ly	NGC 1952
514	3C273 (Quasar)	Vir	12 29 05	+ 02 03 12	12.8	-----	3,000 M	Nearest, brightest quasar, 0.158 red shift	3C 273