

Advanced Observing - The Texas Star Party - 2006

NEBULAE

Observe Any 20 Objects – At Least 5 in each Group

Emission Nebulae:		Location 2000	Const.	Size	Urano 1	Urano 2
<input type="checkbox"/>	Sh 2-237, NGC1931 also Reflecting	05 31 26.0 _ 34 14 42	Aur	7.0'	U-97	59L
<input type="checkbox"/>	IC 443 SN Remnant	06 17 52.0 + 22 46 00	Gem	27.0 x 7.0'	U-137	76R
<input type="checkbox"/>	NGC2736, RCW37 SN Remnant	09 00 11.8 – 45 58 15	Vel	20.0 x 3.0'	U-397	186R
<input type="checkbox"/>	NGC4449 Galaxy	12 28 11.4 + 44 05 40	CVn	6.1 x 4.3'	U-75	37R
<input type="checkbox"/>	“Boomerang” Nebula	12 44 46.1 - 54 31 10	Cen	1.4 x 0.6'	U-429	198L
<input type="checkbox"/>	NGC5068 Galaxy	13 18 54.7 – 21 02 21	Vir	7.3 x 6.5'	U-330	149R
<input type="checkbox"/>	M101 (Galaxy)	14 03 12.5 + 54 20 55	UMa	28.9 x 26.9'	U-49	23L
	NGC5447 Galaxy Knot			1.0 x 0.5'		
	NGC5461 Galaxy Knot			0.8 x 0.4'		
	NGC5462 Galaxy Knot			1.7 x 0.8'		
<input type="checkbox"/>	NGC 6357, Sh 2-11	17 24 56.0 – 34 11 25	Sco	31.0 x 30.0'	U-376	164L
<input type="checkbox"/>	NGC 6559	18 09 53.0 – 24 04 30	Sgr	8.3 x 4.2'	U-339	145R
<input type="checkbox"/>	Sh2-82, LBN 129 also Reflecting	19 30 23.3 + 18 17 02	Sge	9.0'	U-162	66R
<input type="checkbox"/>	Sh 2-84, Sm Calif. Neb	19 49 01.6 + 18 23 22	Sge	6.7 x 2.9'	U-162	66R
<input type="checkbox"/>	Sh 2-90, LBN 144	19 49 12.4 + 26 50 49	Vul	5.0 x 3.0'	U-162	66R
<input type="checkbox"/>	NGC6888, “Crescent” Wolf Rayet	20 12 01.0 + 38 23 00	Cyg	18.0 x 8.0'	U-119	48L
<input type="checkbox"/>	Sh 2-106	20 27 25.5 + 37 22 32	Cyg	3.0'	U-120	48L
<input type="checkbox"/>	Sh 2-112	20 34 03.0 + 45 38 42	Cyg	15.0'	U-85	32R
<input type="checkbox"/>	HH 555, the “Pelican” Herbig Haro Obj.	20 51 19.5 + 44 25 36	Cyg	4.0 x 1.0'	U-85	32L
<input type="checkbox"/>	IC 5146, “Cocoon”	21 53 29.0 + 47 15 41	Cyg	11.0 x 10.0'	U-86	31R

Reflection Nebulae:

<input type="checkbox"/>	IC 4601, CED 129	16 20 14.0 – 20 04 00	Sco	19.6 x 11.6'	U-336	147L
<input type="checkbox"/>	IC4604, Rho Oph	16 25 35.2 – 23 26 50	Oph	80.0 x 70.0'	U-336	147L
<input type="checkbox"/>	IC 4605, LBN 1110	16 30 15.0 – 25 04 00	Sco	23.0 x 22.0'	U-336	147L
<input type="checkbox"/>	NGC 6590, LBN 43	18 17 32.0 – 19 41 00	Sgr	5.6 x 3.3'	U-339	145R
<input type="checkbox"/>	Serpen’s Object	18 29 56.6 + 01 14 51	Ser	2.1 x 0.5'	U-250	106L
<input type="checkbox"/>	NGC 6726 (NGC6727)	19 01 42.0 – 36 53 00	CrA	5.0'	U-379	163L
<input type="checkbox"/>	Mi 1-92, “Footprint” Cometary Nebula	19 36 18.9 + 29 32 51	Cyg	20.0 x 4.0”	U-118	48R
<input type="checkbox"/>	IC 4954 (4955)	20 04 54.0 + 29 11 00	Vul	3.0'	U-119	66L
<input type="checkbox"/>	Gyulbudaghian’s Nebula Variable	20 45 58.0 + 67 58 30	Cep	1.6 x 0.7'	U-32	9R
<input type="checkbox"/>	NGC7023	21 01 36.0 + 68 10 00	Cep	14.0'	U-33	9R
<input type="checkbox"/>	Van den Bergh 142 Cometary Globule	21 36 21.6 + 57 31 01	Cep	28.1 x 10.3'	U-57	19R
<input type="checkbox"/>	Zodiacal Light Sun’s Nebula	-- --	--	--	--	--

Cont. – T.S.P. Advanced Observing - Nebulae:

Dark Nebulae :		Location 2000	Const.	Size	Urano 1	Urano 2
<input type="checkbox"/> CB 68	Bok Globule	16 57 16 – 16 09 18	Oph	4.8 x 3.9'	U-292	128R
<input type="checkbox"/> B 68, LDN 57	Kidney Globule	17 22 38.0 – 23 50 12	Oph	4.0'	U-338	146L
<input type="checkbox"/> B 86 & NGC6520	Irregular Globule	18 02 58.6 – 27 52 00	Sgr	5.0'	U-339	145R
<input type="checkbox"/> Bok Globule – M8	Bok Globule	18 04 47.7 – 24 29 50	Sgr	1.5 x 1.0'	U-339	145R
<input type="checkbox"/> B 92, LDN 323		18 15 27.9 – 18 13 19	Sgr	15.0 x 9.0'	U-339	145R
<input type="checkbox"/> B 93, LDN 327	Cometary Globule	18 16 53.7 – 18 03 58	Sgr	8.0 x 3.0'	U-339	145R
<input type="checkbox"/> Pillars of Creation, M16		18 18 51.5 – 13 49 00	Ser	3.2' x 44"	U-294	127R
<input type="checkbox"/> B 98, LDN 239	Bok Globule	18 33 18.5 – 26 01 36	Sgr	3.0'	U-340	145R
<input type="checkbox"/> B 104, LDN 532		18 47 18.6 – 04 33 53	Sct	2.6 x 2.1'	U-250	105R
<input type="checkbox"/> B 117, LDN 509		18 53 40.2 – 07 25 30	Sct	2.2 x 1.1'	U-295	127L
<input type="checkbox"/> B118	Bok Globule	18 53 56.6 – 07 26 03	Sct	1.5	U-295	127L
<input type="checkbox"/> B 129, LDN 549	Irregular	19 02 06.9 – 05 18 28	Aql	5.0'	U-251	105R
<input type="checkbox"/> B 335, LDN 663	Bok Globule	19 36 59.4 + 07 34 44	Aql	5.6 x 4.5'	U-207	86L
<input type="checkbox"/> B 143, LDN 694	“E” Nebula	19 41 06.2 + 10 56 35	Aql	22.6 x 5.5'	U-207	86L

PLEASE - No Computers or “Go-To” Systems

<i>B</i>	<i>Barnard, E.E., “Catalog of 349 Dark Objects in the Sky”, 1927</i>
<i>CB</i>	<i>Clemens, D.P., Barraines, R., “A Catalog of small optically selected molecular clouds”, ApJS, 1988</i>
<i>CED</i>	<i>Cederblad, S., “Catalog of Bright Diffuse Galactic Nebulae”, 1946</i>
<i>LBN</i>	<i>Lynds, Beverly T., “Catalog of Bright Nebulae”, ApJ, 1965</i>
<i>LDN</i>	<i>Lynds, Beverly T., “Catalog of Dark Nebulae”, ApJ, 1962</i>
<i>Mi</i>	<i>Minkowsk, R., “New Emission Nebulae”, 1946</i>
<i>Sh 2</i>	<i>Sharpless, Stewart, “A Catalog of HII Regions”, ApJS, 1959</i>
<i>vdB</i>	<i>van den Bergh, S., “A Study of Reflection Nebulae”, 1966</i>

Data Source: MegaStar 5

Good Hunting & Good Luck,

Larry Mitchell

Houston Astronomical Society