

TMSPA  
2016 OBSERVER'S CHALLENGE

List #9

	OBJECT	TYPE	RA, DEC	CONST	Mag -V	Mag - 2	SIZE	SEP	COMMENTS
1	NGC 6790	Planetary Nebula	19h 22m 57" +1deg 30' 46.4"	AQUILA	10.5 - 11.4		5"		An almost star-like Planetary, you need a large scope to see any disk. This PN should show a bluish/green color cast.
2	23 Aquila	Double Star	19h 18m 33" +01deg 05' 06"	AQUILA	5.1	8.76		3.25"	A triple star system with two components visible, have fun with this!
3	B138	Dark Nebula	19h 16m 00" +00deg 13'	AQUILA					Great curved, semi-vacant lane over 3 degrees in length, enjoy this excellent DN.
	B139	Dark Nebula	19h 18m' -01deg 28'	AQUILA					Narrow black spot; 10 mag star on SE edge
5	NGC 6760	GC	19h 11m 12" +01deg 01' 50"	AQUILA	8.9		9.6'		Globular cluster of very low dimension and unresolved.
6	NGC 6749	GC	19H 05' 15" +01deg 54' 05"	AQUILA	12		6'		An extremely faint, round patch, on the threshold of visibility in 10". Completely unresolved. NGC 6749 has a reputation as the most difficult NGC globular in the sky.
7	NGC 6741	Planetary Nebula	19h 00m 02" -00deg 31' 23"	AQUILA	11		6"		Phantom Streak Planetary Nebula, "No central star...small bright oval...indistinct ring structure.
8	LDN 617	Dark Nebula	18h 57m 30 +1° 04' 00"	AQUILA			3 deg		A large multi-armed blob of dark sky sweeping between the stars in the field.
9	LDN 564 (B316)	Dark Nebula	18h 37m 36" -01deg 12' 00"	SERPENS			45' x 15'		Medium small triangular area that juts into the brighter Milky Way. Located just 1.2 deg NE of LDN 557.
10	LDN 557	Dark Nebula	18h 38m 36" -01deg 46' 59"	SERPENS			1° x 10'		Conspicuous dark nebula bound on the W side by numerous MY stars. Large diffuse dark area next to triangular and smaller LDN 564 (B316).
11	B136 + B135	Dark Nebula	19h 08m 49" -04deg 00' 00"	AQUILA			8', 13'		B136=Dusky spot; diam. 8'; 10 mag. star near middle. B135=Dusky spot; diam. 13'; BD -4 4698 (magnitude 9.2) on N border; BD -4 4702 (magnitude 9.2) on SE edge
12	Aquila 15	Double Star	19H 05' -04deg 05'	AQUILA	5.5	7	38.4"		Very nice wide double
13	LDN 567 (B 132)	Dark Nebula	19h 04' 27" -04deg 25' 00"	AQUILA			16'		Dark; fairly well-defined. Tadpole-shaped, 16' long E and W.
14	B130 +B127 + B139	Dark Nebula	19H 02m -5deg	AQUILA			7', 4.5', narrow		B130=dusky; not well defined; length 7' B127=Irregular; diam. 4.5' B139=Narrow black spot; 10 mag star on SE edge.
15	NGC 6751	Planetary Nebula	19h 05' 9" -06deg 00'		11.9				Located in a rich field of 10-13 mag stars. Use 200X for observing the disk. The central star should be visible 12" scopes.
16	B134	Dark Nebula	19H 06' -06deg 14'	AQUILA			6'		Opacity 6. Circular in shape. NGC 6751 is close by, 20' NW and B133 is close by. Check in binos and then a scope for more details with edge stars.
17	B133	Dark Nebula	19h 06.1' -06deg 50'	AQUILA					Opacity of 6. Compare this with B134 easily seen in a 1.2 deg FOV.
18	B111	Dark Nebula	18h 50.1' -04deg 48'	SCUTUM			2 deg		Opacity of 2. Observations show sizes from 15'x5' up to 2 degrees, depending on how you define the structure.
19	B119a	Dark Nebula	18h 55' -05deg 10'	SCUTUM			30'		Irregular dark region; diam. .5 degree; liberally sprinkled with stars in its NW half; several dark lanes in SE part

by Kreig McBride and Tom Masterson

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20	NGC6704	Open Cluster	18h 50' 54" -05deg 11' 59"	SCUTUM	9.7		6'		Faint and small, only 6' diameter and brightest star is 12.2 mag. Located 1 deg N of M-11 Located in B-111
21	HV150 + Sigma2391	Double Star	18h 49.7' -05 11' 59"	SCUTUM	AB 6.1	12.2		23.3"	Two nice doubles located between BAS 1 and M-11.
21	Sigma2391	Double Star	18h 48' 38" -05deg 50' 32"		AC 6,1	8.6		113.7"	Yellow-White + Blue
22	BAS 1	Open Cluster	18h 48' 38" -05 50" 32"	SCUTUM	8.9		9'		Look for six faint stars in a ring shape.
23	J107 inside M-11	Double Star	18h 51' 8' -06deg 20'	SCUTUM	8	12.4		5.8"	Have some fun with this fainter DBL with a close connection.
24	B108	Dark Nebula	18h 49, 30' -06deg 30'	SCUTUM			3'		Very small; diam. 3'; not black; two narrow diverging lanes extending to the N; some small stars within.
25	Trumpler 35 + Do32	Open Cluster	18h 42' 59' -04deg 13' 06' Ra 18:40:24 Dec -04:06:00	SCUTUM	9.2		9.0', 12.0'		Both Trumpler 35 and Dolidze 32 are open clusters in Scutum.
26	NGC 6683 + B103	+ Dark Nebula	18h 42' 13.9" -06deg 12'44" 18h 39' 25" -06deg 40' 00"	SCUTUM	9.4, Opacity = 6		3.0', 4.0'		NGC is an open cluster. B103 is a dark cloud with Opacity = 6
27	Do29 + Do30 + Do31	Open Clusters	18h 3' 24" -06deg 38' 00" 18h32'54" -06deg 02' 18h34' 54' -06deg 51'	SCUTUM			18', 18', 18'		All three Dolidze are open clusters, have fun!!
28	NGC 6664	Open Cluster	19H 02m -5deg	SCUTUM	7.8		16'		
29	NGC 6712	GC	18h 53' 04' -08deg 42' 22"	SCUTUM	8.1		7.2'		Tight, small open cluster.
30	B318	Dark Nebula	18H 51' -06 deg 25'	SCUTUM			1.5 deg x 2' wide		Long, straight, dark line. This dusky line, just S of M-11, extends E and W for about 1 1/2 degrees. It is uniformly about 2' wide. A very very difficult object, spend a lot of time to study this one!