

2015 TMSP OBSERVER'S CHALLENGE

Object	Object Type	Common Name	RA Dec	Const	Mag	Mag.2	Size	SB	PA	Sep	SA2000	U2000	U2000.2	PSA
<b>NEAR: "Cruisin' the Hood" - LOCAL STARS, SOME WITH PLANETS, &lt;20ly Distant. Are we alone in the Universe? Are we???</b>														
1	Hip 74793	Single Star	11 UMi	15h17m04s +71°46'28"	UMi	5.02V					2	28	12	51
2	Hip 96901	Single Star	16 b Cyg	19h42m19s +50°33'36"	Cyg	6.25V					8	55	33	62 Visually a double double
3	Hip 42527	Single Star	Pi02 UMa	08h41m29s +64°16'10"	UMa	4.59V					2	22	14	21
4	Hip 90344	Single Star	42 Dra	18h26m03s +65°34'47"	Dra	4.82V					3	30	10	61 1 Planet
5	Hip 116727	Single Star	Gamma Cep	23h40m08s +77°43'00"	Cep	3.21V					3	3	2	71 1 Planet. A bit of Exoplanet history: The first confirmed Exoplanet "Star Date" 1989
6	CCDM 21069+3844A	Double Star	61 Cyg	21h07m32s +38°48'58"	Cyg	5.6V				0°.0	9	121	47	73 11 light years
7	WDS 01441-1556	Double Star	Tau Cet	01h44m50s -15°51'33"	Cet	3.5V	13.1V		157°	137".0	10	263	140	6 12ly G star, 5 planets?? Tau Ceti has been mentioned in several Science Fiction stories as habitable, long before real planets were discovered here.
8	WDS 18055+0230AB	Double Star	70 Oph	18h06m15s +02°30'23"	Oph	4.22V	6.17V		281°	1".99	15	249	106	65 16.6 ly distant
9	WDS 19508+0852AB	Double Star	Alpha Aql	19h51m33s +08°54'47"	Aql	0.95V	9.82V		286°	192".0	16	207	84	64
10	WDS 19324+6940	Double Star	Sigma Dra	19h32m21s +69°42'02"	Dra	4.76V	11.35V		339°	492".8	3	31	10	61 19 ly distant
11	WDS 00491+5749AB	Double Star	Eta Cas	00h50m02s +57°53'54"	Cas	3.52V	7.36V		324°	13".36	1	36	18	1 19.42 ly distant
<b>FAR: OMG!!!, It's GIANORMOUS! These Galaxies trace some of the large filamentary structure of the Universe across the sky</b>														
12	NGC 1275	Galaxy	Perseus A Abell 426	03h20m50s +41°33'47"	Per	11.9v	2'.3x1'.6	21.9	110°		4	63	43	13
13	NGC 906	Galaxy	Abell 347	02h26m16s +42°09'24"	And	12.9v	1'.8x1'.6	22.7	143°		4	62	43	2
14	NGC 708	Galaxy	Abell 262	01h53m42s +36°13'35"	And	12.7v	3'.0x2'.5	23.5	35°		4	92	62	2
15	NGC 507	Galaxy	NGC 507 Group	01h24m34s +33°20'10"	Psc	11.2v	2'.5x2'.5	21.8			4	91	62	3
16	NGC 383	Galaxy	NGC 383 Group	01h08m18s +32°29'38"	Psc	12.2v	2'.0x1'.7	22.2	30°		4	91	62	3
17	NGC 6146	Galaxy	Abell 2197	16h25m41s +40°51'52"	Her	12.5v	1'.3x1'.0	21.4	75°		8	80	35	53
18	NGC 6160	Galaxy	Abell 2197	16h28m12s +40°54'01"	Her	13.2v	1'.8x1'.5	22.9	65°		8	80	35	53
19	NGC 6173	Galaxy	Abell 2197	16h30m16s +40°47'05"	Her	12.1v	1'.9x1'.4	21.8	140°		8	80	35	53
20	NGC 6166	Galaxy	Abell 2199	16h29m10s +39°31'28"	Her	11.8v	1'.9x1'.4	21.5	35°		8	80	51	53
21	NGC 206	HII region in M31		00h41m25s +40°49'20"	And	14.0v	4'.2	25.7			4	60	30	3 A warm-up for the M33 Challenge below

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<b>M33 Galaxy Challenge – Hunting faint fuzzies, in a faint fuzzy</b>														
22	NGC 595	HII region in M33	01h34m28s +30°46'13"	Tri	13.5v		30".0	20.6			4	91	62	2
23	NGC 592	HII region in M33	01h34m06s +30°43'28"	Tri	13.0v		42".0	20.9			4	91	62	2
24	NGC 588	HII region in M33	01h33m39s +30°43'37"	Tri	13.5v		39".0	21.2			4	91	62	2
25	IC 142	M33 Star cloud + individual star B342	01h34m49s +30°50'03"	Tri	14.2v		30".0	21.3			4	91	62	2 Star B342 is located within IC 142 star cloud, and is the only individual star in M33 resolvable in amateur telescopes
26	IC 1727	Galaxy	01h48m23s +27°24'30"	Tri	11.5v		5'.7x2'.4	23	150°		4	128	80	4 With NGC 672
27	NGC 23	Galaxy	00h10m43s +26°00'39"	Peg	12.0v		2'.1x1'.3	21.7	8°		4	125	63	5 With NGC 26
28	NGC 26	Galaxy	00h11m16s +25°55'09"	Peg	12.9v		2'.1x1'.4	22.7	100°		4	125	63	5 With NGC 29
29	NGC 7339	Galaxy	22h38m33s+ 23°52'11"	Peg	12.2v		2'.8x0'.7	21.6	93°		9	167	64	74 With NGC 7332
<b>LONG LOST FAMILY MEMBER??? "Whatya' mean, you're my sister, I thought I was an only child!!!???"</b>														
30	Hip 87382	Single Star Sun's Sibling? HD 162826	17h51m14s +40°04'21"	Her	6.5V						8	1,81	1,50	52 A recent search for fellow members of the Sun's birth-cloud have turned up this candidate of similar chemical composition and age