

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	
NEAR: "Cruisin' the Hood" - LOCAL STARS, SOME WITH PLANETS, <20ly Distant. Are we alone in the Universe? Are we???															
1	Hip 74793	Single Star	11 UMi	15h17m04	UMi	5.02V					2	28	12	51	
2	Hip 96901	Single Star	16 b Cyg	19h42m19	Cyg	6.25V					8	55	33	62	Visually a double double
3	Hip 42527	Single Star	Pi02 UMa	08h41m29	UMa	4.59V					2	22	14	21	
4	Hip 90344	Single Star	42 Dra	18h26m03	Dra	4.82V					3	30	10	61	1 Planet
			23h40m08 s												1 Planet. A bit of Exoplanet history: The first confirmed Exoplanet "Star Date"
5	Hip 116727	Single Star	Gamma Cep	+77°43'00"	Cep	3.21V					3	3	2	71	1989
6	CCDM 21069+3844A	Double Star	61 Cyg	21h07m32	Cyg	5.6V				0".0	9	121	47	73	11 light years
			01h44m50 s -												12ly G star, 5 planets?? Tau Ceti has been mentioned in several Science Fiction stories as habitable, long before real planets were discovered here.
7	WDS 01441-1556	Double Star	Tau Cet	15°51'33"	Cet	3.5V	13.1V		157°	137".0	10	263	140	6	
8	WDS 18055+0230AB	Double Star	70 Oph	18h06m15	Oph	4.22V	6.17V		281°	1".99	15	249	106	65	16.6 ly distant
9	WDS 19508+0852AB	Double Star	Alpha Aql	19h51m33	Aql	0.95V	9.82V		286°	192".0	16	207	84	64	
10	WDS 19324+6940	Double Star	Sigma Dra	19h32m21	Dra	4.76V	11.35V		339°	492".8	3	31	10	61	19 ly distant
11	WDS 00491+5749AB	Double Star	Eta Cas	00h50m02	Cas	3.52V	7.36V		324°	13".36	1	36	18	1	19.42 ly distant
FAR: OMG!!!, It's GIANORMOUS! These Galaxies trace some of the large filamentary structure of the Universe across the sky															
12	NGC 1275	Galaxy	Perseus A Abell 426	03h20m50	Per	11.9v	2'.3x1'.6	21.9	110°		4	63	43	13	
13	NGC 906	Galaxy	Abell 347	02h26m16	And	12.9v	1'.8x1'.6	22.7	143°		4	62	43	2	
14	NGC 708	Galaxy	Abell 262	01h53m42	And	12.7v	3'.0x2'.5	23.5	35°		4	92	62	2	
15	NGC 507	Galaxy	NGC 507 Group	01h24m34	Psc	11.2v	2'.5x2'.5	21.8			4	91	62	3	
16	NGC 383	Galaxy	NGC 383 Group	01h08m18	Psc	12.2v	2'.0x1'.7	22.2	30°		4	91	62	3	
17	NGC 6146	Galaxy	Abell 2197	16h25m41	Her	12.5v	1'.3x1'.0	21.4	75°		8	80	35	53	
18	NGC 6160	Galaxy	Abell 2197	16h28m12	Her	13.2v	1'.8x1'.5	22.9	65°		8	80	35	53	
19	NGC 6173	Galaxy	Abell 2197	16h30m16	Her	12.1v	1'.9x1'.4	21.8	140°		8	80	35	53	
20	NGC 6166	Galaxy	Abell 2199	16h29m10	Her	11.8v	1'.9x1'.4	21.5	35°		8	80	51	53	
21	NGC 206	HII region in M31	00h41m25 s	And	14.0v		4'.2	25.7			4	60	30	3	A warm-up for the M33 Challenge below

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	M33 Galaxy Challenge – Hunting faint fuzzies, in a faint fuzzy															
22	NGC 595	HII region in M33		01h34m28	Tri	13.5v		30".0	20.6			4	91	62	2	
23	NGC 592	HII region in M33		01h34m06	Tri	13.0v		42".0	20.9			4	91	62	2	
24	NGC 588	HII region in M33		01h33m39	Tri	13.5v		39".0	21.2			4	91	62	2	
25	IC 142	M33 Star cloud + individual star B342		01h34m49 s +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		01h48m23	Tri	11.5v		5'.7x2'.4	23	150°		4	128	80	4	With ngc 672
27	NGC 23	Galaxy		00h10m43	Peg	12.0v		2'.1x1'.3	21.7	8°		4	125	63	5	With ngc 26
28	NGC 26	Galaxy		00h11m16	Peg	12.9v		2'.1x1'.4	22.7	100°		4	125	63	5	With ngc 29
29	NGC 7339	Galaxy		22h38m33	Peg	12.2v		2'.8x0'.7	21.6	93°		9	167	64	74	With 7332
LONG LOST FAMILY MEMBER??? “Whatya' mean, you're my sister, I thought I was an only child!!!???”																
30	Hip 87382	Single Star Sun's Sibling?	HD 162826	17h51m14 s +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