

ADVANCED OBSERVING - "INTERACTIONS" - T.S.P. 2002

<> Observe any 25 Objects <>

<u>OBJECT</u>	<u>COOR (2000)</u>	<u>CONS</u>	<u>TYPE</u>	<u>SIZE</u>	<u>MAG.</u>	<u>R.V.</u>	<u>DIST. H₀=70</u>	<u>URANO 1 / 2</u>	
ARP 243, NGC2623	08 38 24 + 25 45 15	Cnc	Trpl	2.4 X 0.7'	13.4v	+5472	254.8	141	75
ARP 321, HICKSON 40A	09 38 53 - 04 50 55	Hya	E8	0.9 X 0.7'	12.8v	+6622	308.4	233	1
HICKSON 40B			SOP	0.8 X 0.5'	14.0v	+6821	317.7		
HICKSON 40C			Sbc	1.1 X 0.3'	14.9v	+6853	319.2		
HICKSON 40D			Sba	0.7 X 0.3'	14.1v	+6466	301.1		
HICKSON 40E			Sc	0.6 X 0.3'	17.3	+6625	308.5		
SHAKHBAZIAN 1 CLUSTER	10 55 06 + 40 27 29	UMa	Clstr	1.4 X 1.0'	16.5	+34,910	1625.8	73	55
ARP 105, "Ambartsumian's Knot"									
NGC 3561	11 11 13 + 28 41 46	UMa	Dbl	0.7 X 0.7'	13.8v	+8549	398.3	106	73
NGC3561A			P	0.8 X 0.8'	13.3v	+8811	410.3		
PGC 33994 - The Knot				0.1 X 0.1'		+8870	413.1		
MAC 111+2845A				0.5 X 0.5'	17.5				
ARP 322, HICKSON 56A	11 32 40 + 52 57 00	UMa	Sc	1.3 X 0.2'	16.2b	+7929	369.3	47	24
HICKSON 56B			SBO	0.7 X 0.3'	16.2b	+7929	369.3		
HICKSON 56C			SOP	0.7 X 0.4'	15.8b	+8110	377.7		
HICKSON 56D			SO	0.4 X 0.3'	16.8	+8346	388.7		
HICKSON56E			SOP	0.5 X 0.3'	16.4b	+7884	367.2		
VV172, ARP 329, HICK 55A	11 32 07 + 70 48 56	Dra	EO	0.2 X 0.2'	15.9b	+15,649	728.8	25	13
HICKSON 55B			SO	0.3 X 0.2'	16.4	+15,480	720.9		
HICKSON 55C			E3	0.2 X 0.2'	16.9	+15,571	725.2		
HICKSON 55D			E2	0.2 X 0.1'	17.1	+15,891	740.1		
HICKSON 55E			Sc	0.2 X 0.1'	17.4	+36,880	1717.6		
"COPELAND'S" SEPTET									
HICKSON 57A, NGC3753	11 37 54 + 21 58 51	Leo	Sb	1.9 X 0.5'	13.6v	+8717	406.0	147	72
HICKSON 57B, NGC3746			SBb	1.1 X 0.5'	14.2v	+9074	422.6		
HICKSON 57C, NGC3750			E3	0.9 X 0.5'	13.9v	+9064	422.1		
HICKSON 57D, NGC3454			SBc	0.6 X 0.4'	14.3v	+9012	419.7		
HICKSON 57E, NGC3748			SOa	0.8 X 0.3'	14.8v	+8989	418.6		
HICKSON 57F, NGC3751			E4	0.9 X 0.4'	13.9v	+9592	446.7		
HICKSON 57G, NGC3745			SBO	0.4 X 0.41'	15.2v	+9413	438.4		
HICKSON 57H			SBb	0.3 X 0.2'	16.0v				
"WILDS TRIPLET", ARP 248									
MCG-1-30-33	11 46 45 - 03 50 50	Vir	SBP1	3.1 X 0.7'	13.4v	+5008	233.2	237	111
MCG-1-30-32			P	1.8 X 0.8'	13.8v	+5108	237.9		
MCG-1-30-34			SBP	1.3 X 0.5'	15.3v	+5396	251.3		
VV 523, NGC 3991	11 57 30 + 32 20 04	UMa	l pec	1.9 X 0.6'	13.1v	+3204	149.2	107	54
ARAKELIAN 337, NGC3994			Sa pec	1.5 X 1.0'	12.7v	+3096	144.2		
ARP 313, NGC3995			Sa pec	3.1 X 1.2'	12.4v	+3339	155.5		
ARP 97, MCG+5-29-11	12 05 45 + 31 03 17	UMa	P	1.4 X 0.5'	14.1v	+6886	320.7	107	54
MCG+5-29-10			P	1.6 X 0.5'	15.7	+6949	323.6		
MCG+5-29-12			S	0.4 X 0.2'	16.4v				
"BOX", HICK 61A, NGC4169	12 12 19 + 29 10 47	Com	SOa	2.3 x 1.2'	12.2v	+3783	176.2	107	72
HICKSON 61B, NGC4170-73			SM	5.0 x 0.7'	13.0v	+1121	52.2		
HICKSON 61C, NGC4175			Sbc	1.8 x 0.4'	13.3v	+4007	186.6		
HICKSON 61D, NGC4174			SO	1.1 x 0.5'	13.4v	+3980	185.4		
MAC 59722			--	0.2 x 0.1'	17.5p				
"MITCHELL'S" OBJECT	12 17 48 + 46 34 59	CVn	Dbl	0.75 x 0.5'	16.0p			74	37
NGC4298	12 21 33 + 14 36 11	Com	Sc	3.0 x 1.8'	11.3v	+1122	52.3	193	91
NGC4302			Sc	5.8 x 0.7'	11.6v	+1111	51.7		
MAC 1221+1437			--	0.4 x 0.2'	17.0p				

Advanced Observing T.S.P. 2002 - "Interactions", Cont.

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"SIAMESE TWINS", NGC4567 NGC4568	12 36 33 + 11 15 31	Vir	Sc Sc	3.3 x 2.0' 4.8 x 2.0'	13.1v 10.8v	+2213 +2260	103.1 105.3	194	91
"MICE" ARP 242, NGC4676A NGC4676B	12 46 11 + 30 44 39	Com	Dbl Dbl	2.6 X 0.5' 2.3 X 1.2'	13.1v 13.8v	+6649 +6549	309.7 305.0	108	53
AM 1316-241, ESO 508-45/A ESO 508-45A	13 19 32 - 24 29 04	Hya	Dbl Dbl	0.8 X 0.8' 0.8 X 0.4'	15.7 15.8	+9653	449.6	330	149
"KEENEN'S" SYSTEM, ARP 104 NGC5216 NGC5218	13 32 06 + 62 42 01	UMa	EOP S	2.4 X 1.8' 2.9 X 1.6'	12.6v 12.3v	+2949 +2807	137.3 130.7	26	12
ARP 239, NGC5278 NGC5279	13 41 39 + 55 40 12	UMa	Dbl Dbl	0.8 X 0.6' 0.7 X 0.4'	13.5v 14.7v	+7541 +7580	351.2 353.0	49	23
"SEASHELL", MCG-5-33-5 NGC5291	13 47 23 - 30 25 00	Cen	S EP	0.8 X 0.5' 1.3 X 0.9'	15.1v 14.1v	+3730 +4340	173.7 202.1	371	167
HICKSON 68A, NGC5353 HICKSON 68B, NGC5354 HICKSON 68C, NGC5350 HICKSON 68D, NGC5355 HICKSON 68E, NGC5358 MAC 1353+40158C	13 53 27 + 40 18 09	CVn	SO E2 SBbc E3 SO --	3.3 X 1.8' 2.8 X 2.2' 3.3 X 2.4' 1.2 X 0.7' 1.7 X 0.7' 0.4 X 0.3'	10.9v 11.3v 11.3v 13.1v 13.6v 16.0p	+2107 +2459 +2308 +2414 +2432	98.1 114.5 107.4 112.4 113.3	76	53
AM 1352-263, MCG-4-33-13	13 55 04 - 26 46 48	Hya	SP	1.0 X 1.2'	13.4p	+3559	165.7	331	149
ARP 271, NGC5426 NGC5427	14 03 25 - 06 04 10	Vir	SaP Sb	3.0 X 1.6' 3.2 X 2.3'	12.1v 11.4v	+2371 +2645	110.4 123.2	286	129
ARP 274, NGC5679A NGC5679B MCG+1-37-36	14 35 06 + 05 21 18	Vir	S Dbl --	1.3 X 0.6' 1.1 X 0.7' 0.4 X 0.2'	13.7v 13.6v 17.2	+7483 +8654 +7618	348.5 403.0 354.8	242	109
ARP 173, MCG+2-38-19 MCG+2-38-20	14 51 27 + 09 18 53	Boo	S S	1.5 X 0.3' 0.6 X 0.4'	14.6 14.7v	+8745 +8780	407.3 408.9	198	89
ARP 302, UGC 9618 MCG +4-35-19	14 57 00 + 24 36 24	Boo	Dbl S	0.7 X 0.7' 0.9 X 0.2'	14.9 15.8	+9872 +10,059	459.8 468.5	153	70
"SANCHO'S" OBJECT	15 10 17 + 58 10 39	Dra	Dbl	0.5 X 0.4'	16.0v	+9563	445.4	50	22
ABELL 2065	15 22 42 + 27 43 00	CrB	Clstr	22.4 X 22.4'	15.6	+21,605	1.01Bil	154	69
"SEYFERT'S SEXTET" NGC3027 HICKSON 79A, NGC6027A HICKSON 79B, NGC6027B HICKSON 79C, NGC6027C HICKSON 79D, NGC6027D HICKSON 79E, NGC6027E	15 59 11 + 20 45 17	Ser	SOp EO SO SO Sdm Scd	0.5 X 0.3' 0.9 X 0.6' 0.5 X 0.3' 0.7 X 0.2' 0.3 X 0.3' 0.9 X 0.4'	14.3v 13.9v 14.3v 15.9v 15.6v 13.5v	+4413 +4197 +4017 +4482 +19,813 +4095	205.2 195.5 187.1 208.7 922.7 190.7	155	69
ARP 101, UGC10169	16 04 34 + 14 49 44	Ser	Dbl	2.3 X 0.5'	13.7v	+4708	219.3	200	88
VV489, UGC10273 MAC 16030	16 12 45 + 28 17 09	CrB	Dbl --	1.7 X 0.4' 0.4 X 0.1'	14.3v 16.5p	+7381 --	343.7	113	69
ARP 102, UGC 10814	17 19 20 + 49 03 15	Her	S	3.7 X 0.5'	14.1v	+7177	334.2	81	34

Source "Megastar"

Distance: 10^6 light year

$H_0 = 70 \text{ Km. s}^{-1} \cdot \text{Mpc}^{-1}$

GOOD LUCK

LARRY MITCHELL - Houston, TX.