

Caldwell Observation

1	NGC 188	Cep	Open Cluster 10.0 I 2 r	CL,VL,R,150-200*
Jul 17 2020	12"	8mm Et	F,S,R=F	
Jul 08 2019	12"	11mmT6	F,S,R=F	
Jul 08 2018	12"	17mmT4	F,S,R=G	
Oct 18 2009	12"	11mmT6	PF,S, R=F, TIGHT GROUP	
2	NGC 40	Cep H58-4	Planetary Neb 3b+3	F,VS,R,VSMBM,*12SP
Jul 17 2020	12"	8mm Et	F,PS,R=G. LP2, SAW THE CENTRAL STAR	
Oct 05 2016	12"	11mmT6	B,VS,R=G. OIII HELPS. NOT SURE ABOUT CENTRAL STAR	
Nov 11 2009	12"	7.5mmW	B,PS,R=G, CENTRAL STAR VISIBLE	
Oct 06 2004	8"	7.5mmW	MB,R,R=G	
3	NGC 4236	Dra H51-5	Galaxy SB(s)dm	VF,EL,ME160,VGBM
Jun 28 2019	12"	8mm Et	DIFF,F,S,OVAL,PEXT,UB,NND,R=F	
Sep 01 2005	8"	7.5mmW	MF,ML,NND,LSB,R=F	
4	NGC 7023	Cep H74-4	Nebula R	*7IN EF,EL,NEBY
Jul 17 2020	12"	13mmHWF	S,R=G. LP2	
Jul 08 2018	12"	17mmT4	B,L,R=E. IRIS NEBULA	
Nov 13 2007	8"	19mmW	PF,PS,HINT OF NEBULOSITY,R=F	
5	IC 342	Cam	Galaxy SAB(rs)cd	
Oct 12 2012	18"	7mm TV	DIFF,F,L,R,UB,NND,R=G	
6	NGC 6543	Dra H37-4	Planetary Neb 3a+2	PLN,VB,PS,SBMVSN
May 31 2019	12"	11mmT6		
Oct 21 2012	8"	5mm TV	B,PS,OVAL IN SHAPE,R=F	
Sep 05 2010	12"	5.5mmN	PB,PS,R=G, NO CENTRAL STAR NOTED. OIII NOT MUCH HELP - NO ADDITIONAL STRUCTURE	
Jul 09 2005	8"	11mmT6	VB,VS,OVAL,R=G	
Apr 13 2005	8"	11mmT6	VB,VS,R,R=G	
7	NGC 2403	Cam H44-5	Galaxy Sc	CB,EL,VME,VGMBMN
Nov 26 2006	1.9"	12x50	PF,PS,OVAL,AV,R=F	
Oct 06 2004	8"	11mmT6	MB,EL,OVAL,NND,R=G	
8	NGC 559	Cas H48-7	Open Cluster 9.0 I 1 m	CL,B,PL,PRI
Oct 21 2012	8"	11mmT6	B,S,V-SHAPE W/V-TOWARDSNE,SOME NEBULOSITY NOTED,R=G	
Oct 06 2004	8"	7.5mmW	HISB,R=F	
10	NGC 663	Cas H31-6	Open Cluster 9.0 II 3 r	CL,B,L,ERI,ST PL
Oct 09 2018	12"	8mm Et	B,L,R=G	
Dec 05 2015	12"	17mmT4		
Aug 21 2015	12"	8mm Ds		
Oct 21 2012	8"	11mmT6	B,L,LOOSE,STGARS=40-60,R=G	
Nov 26 2006	1.9"	12x50	F,CS,PATCHY,R=F	
Nov 09 2006	8"	19mmW	LOOSE, CLUSTERED SOUTHERN HALF,R=F	
Sep 15 2004	8"	11mmT6	NICE - LOTS OF STARS	
11	NGC 7635	Cas H52-4	Nebula E	VF,*8INV L EXCENTRIC
Oct 05 2016	12"	11mmT6	VF,S,R=F. DETECTED SOME NEBULOSITY W/O OIII. LITTLE BETTER WITH OIII.	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	

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12	NGC 6946	Cep H76-4	Galaxy SAB(rs)cd	VF,VL,VG,VSBM,RR
Jul 17 2020	12"	13mmHWF,L,UB,NND,R=G		
Sep 26 2019	12"	17mmT4		
Jul 08 2019	12"	11mmT6 DIFF,PF,L,R,UB,NND,R=F		
Aug 31 2010	12"	7mm TV DIFF,PF,S,OVAL,MEXT,UB,NND,R=G. PA=180		
Nov 03 2004	8"	11mmT6 MB,OVAL,NND,MSB,R=G		
Oct 10 2004	8"	11mmT6 MF,OVAL,PATCH,NND,R=F		
13	NGC 457	Cas H42-7	Open Cluster 8.6 II 3 r	CL,B,L,PRI,*7,8,10
Sep 24 2016	12"	11mmT6 B,L,R=G. OWL CLUSTER		
Dec 05 2015	12"	17mmT4 E.T. CLUSTER. AKA OWL CLUSTER		
Oct 21 2012	8"	11mmT6 F,S,STARS=50-60,R=G		
Nov 26 2006	1.9"	12x50 F,L,DIM,PATCHY,R=F		
Nov 09 2006	8"	19mmW 30+,CROSS SHAPED,R=F		
Jul 23 2006	8"	7.5mmW CB,PL,R=G,EXTENDED GROUP		
Dec 31 2003	8"	25mmPL H/M COLD		
14A	NGC 869	Per H33-6	Open Cluster 6.6 I 3 r	CL,VVL,VRI,*7...14
Aug 24 2019	12"	35mm A BEST OPEN CLUSTER GROUP		
Oct 09 2018	12"	35mm A BEST CLUSTER OF THE NIGHT, DOUBLE CLUSTER		
Jan 25 2018	12"	35mm A NICE OBJECT		
Sep 24 2016	12"	17mmT4 GREAT OBJECT.		
Dec 05 2015	12"	17mmT4		
Aug 21 2015	12"	35mm A		
Oct 21 2012	8"	25mmPL NICE BUT NOT AS NICE AS WRO		
Oct 12 2012	18"	35mm A DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR		
Aug 31 2010	12"	17mmAT NIGHT ENDING EYE CANDY		
Oct 29 2006	8"	19mmW B,L,LOOSE,R,R=G		
Oct 13 2006	1.9"	12x50 PB,PL,R=G		
Oct 01 2006	1.9"	12x50 B,L,R=G, TIGHT GROUP		
Sep 01 2005	8"	7.5mmW VB,R,R=G. BEAUTY - DOUBLE CLUSTER		
Oct 31 2004	1.9"	12x50 VERY NICE IN BINOCULARS		
Dec 31 2003	8"	25mmPL H/M COLD		
14B	NGC 884	Per H34-6	Open Cluster 6.4 I 3 r	CL,VL,VRI,RUBY*M
Aug 24 2019	12"	35mm A BEST OPEN CLUSTER GROUP		
Oct 09 2018	12"	35mm A BEST CLUSTER OF THE NIGHT. DOUBLE CLUSTER		
Jan 25 2018	12"	35mm A NICE OBJECT		
Sep 24 2016	12"	17mmT4 GREAT OBJECT.		
Dec 05 2015	12"	17mmT4		
Aug 21 2015	12"	35mm A		
Oct 21 2012	8"	25mmPL NICE BUT NOT AS NICE AS WRO		
Oct 12 2012	18"	35mm A DOUBLE CLUSTER W/35MM A.T. 68 DEGREE AND PARACORR		
Aug 31 2010	12"	17mmAT NIGHT ENDING EYE CANDY		
Oct 29 2006	8"	19mmW B,L,COMPRESSED,R,R=G		
Oct 13 2006	1.9"	12x50 PB,PL,R=G		
Oct 01 2006	1.9"	12x50 PB,PL,R=G, LITTLE LOOSER		
Sep 01 2005	8"	7.5mmW VB,R,R=G. BEAUTY - DOUBLE CLUSTER		
Oct 31 2004	1.9"	12x50 VERY NICE IN BINOCULARS		

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14B	NGC 884	Per H34-6	Open Cluster 6.4 I 3 r	CL,VL,VRI,RUBY*M
Dec 31 2003	8"	25mmPL	H/M COLD	
15	NGC 6826	Cyg H73-4	Planetary Neb 3a+2	PLN,B,PL,R,*11M
May 31 2019	12"	11mmT6		
Jul 19 2017	12"	11mmT6	F,PS,R=G. SQM=20.01. 71 DEGREES OUT.	
Aug 13 2010	31"	17mmT4	B,S,R=F, CENTRAL STAR OBSERVED AND NOTED	
Nov 13 2007	8"	11mmT6	PB,PS,R,R=G, NO CENTRAL STAR	
Oct 13 2006	8"	19mmW	VF,PS,R=F	
Sep 04 2004	8"	11mmT6	FAINT	
16	NGC 7243	Lac H75-8	Open Cluster 8.0 II 2 m	CL,L,P,LC,ST VL
Jul 21 2007	1.9"	12x50	PB,PL,R=G	
Nov 09 2006	8"	19mmW	TIGHTER,HINT OF NEB.,R=F	
Jul 24 2006	8"	11mmT6	PB,PL,R=G	
Jul 21 2004	8"	25mmPL	SHORT NIGHT - CLOUDS ROLLED IN.	
17	NGC 147	Cas	Galaxy E5 pec	VF,VL,IR,GSM*11
Sep 02 2019	12"	11mmT6	DIFF,VF,S,OVAL,UB,NND,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
18	NGC 185	Cas H707-2	Galaxy E3 pec	PB,VL,IR,VGMBM,R
Jul 23 2006	8"	11mmT6	VF,PL,OVAL,NND,AV,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
19	IC 5146	Cyg	Nebula E	
Jul 13 2020	12"	13mmHWF	S,R=G. LP2 BEST. OIII GOOD	
Jun 24 2020	12"	20mmOP	OUTSTANDING,R=E	
Jun 20 2007	1.9"	12x50	F,S,R=F, HINT OF NEBULOSITY	
Jun 26 2004	8"	7.5mmW	INVOLVED WITH CR 470	
20	NGC 7000	Cyg H37-5	Nebula E	F,EEL,DIF NEBULOSITY
Jun 19 2020	12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	
Sep 26 2019	12"	27m PN	OUTSTANDING OBJECT. OIII FILTER	
Jun 28 2019	12"	35mm A	NORTH AMERICA NEBULA. LP2 FILTER. EXCELLENT OBJECT.	
Jul 08 2018	12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017	12"	35mm A	OUTSTANDING.	
Jul 01 2016	12"	35mm A	GREAT,R=E!! LP2 FILTER	
Aug 21 2015	12"	35mm A	LP2 FILTER	
Jul 15 2015	12"	35mm A	LP2 FILTER - VERY NICE OBJECT	
Jul 25 2011	12"	32mmUWB,VL	R=E!! LP-2 FILTER, OUTSTANDING	
Jun 20 2007	1.9"	12x50	F,EL,R=G, LITTLE BETTER	
Aug 02 2005	8"	19mmW	PRETTY LARGE, PRETTY BRIGHT, PRETTY NEAT	
21	NGC 4449	CVn H213-1	Galaxy IBm	VB,CL,ME,DORBIFID,*F
Mar 13 2007	8"	11mmT6	PB,PL,OVAL,FNUC,MHISB,R=G	
Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL	
22	NGC 7662	And H18-4	Planetary Neb 4+3	PLN ORRING,VB,PS,R
Oct 09 2018	12"	8mm Et	PB,S,R=G	
Oct 05 2016	12"	11mmT6	B,S,OIII,R=G. BLUE STREAK NEBULA	

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22	NGC 7662	And H18-4	Planetary Neb 4+3	PLN ORRING,VB,PS,R
Aug 21 2015	12"	8mm Ds	PRETTY SMALL USED LP2 FILTER	
Aug 24 2012	18"	5mm TV	ROUND AND BRIGHT, OIII, BLUE SNOWBALL, R=E!	
Nov 21 2006	8"	11mmT6	VB,PS,OVAL, NO CENTRAL STAR,R=G	
Aug 23 2004	8"	9mm	SMALL,FAINT. LOOK @ AGAIN LATER!	
23	NGC 891	And H19-5	Galaxy SA(s)b? sp	B,VL,VME22
Sep 26 2019	12"	11mmT6		
Oct 12 2012	18"	17mmT4	DARK DUST LANE BISECTING GALAXY. JOHN'S 20" OBSESSION	
Oct 07 2010	12"	11mmT6	PF,S,EON,UB,NND,R=F,PA=85	
Oct 27 2004	31"	31mmT5	VB,ML,EON,HISB,R=E, LUNAR ECLIPSE	
Oct 06 2004	8"	11mmT6	MB,EL,EON,NND,R=G	
24	NGC 1275	Per H603-2	Galaxy Pec	F,S
Nov 10 2012	18"	7mm TV	PF,PS,R,FNUC,MSB,R=F	
Oct 07 2010	12"	7mm TV	PF,PS,R,FNUC,R=F	
Nov 11 2009	12"	7.5mmW	PF,PS,R,FNUC,R=F	
Nov 09 2004	8"	7.5mmW	VF,EL,NND,AV,R=F	
25	NGC 2419	Lyn H218-1	Globular	PB,PL,LE90,VGBM,*4'F
Feb 21 2020	36"	17mmT4	B,L,R=G	
Dec 04 2004	8"	7.5mmW	OVAL,R=G	
26	NGC 4244	CVn H41-5	Galaxy SA(s)cd: sp	PB,VL,EE43,VGBM
May 04 2005	8"	19mmW	MB,ML,EL,EON,FNUC,R=G	
27	NGC 6888	Cyg H72-4	Nebula E	F,VL,VME,**ATT
Jul 08 2019	12"	17mmT4	B,L,R=G. LP2. CRESCENT NEBULA.	
Oct 12 2012	18"	17mmT4	FINE OBJECT IN JOHN'S 20" OBSESSION, OIII FILTER	
Oct 12 2012	36"	17mmT4	FINE NEBULA IN CYGNUS, OUTSTANDING OBJECT, OIII FILTER	
Jul 24 2006	8"	25mmPL	PF,PL,PATCHEY,R=F	
28	NGC 752	And H32-7	Open Cluster 8.0 II 2 r	CL,VVL,RI,*L\$SC
Nov 26 2006	1.9"	12x50	B,L,LOOSE,RESOLVE 4-5 STARS,R=F	
Oct 29 2006	8"	19mmW	50+STARS,R,R=G	
Oct 06 2004	8"	7.5mmW	EB,R,UB,R=G	
29	NGC 5005	CVn H96-1	Galaxy SAB(rs)bc	VB,VL,VME66,VSBMN
Apr 06 2010	12"	11mmT6	PB,PS,EON,BNUC,R=G	
Apr 26 2006	8"	11mmT6	PB,PL,EON,BNUC,R=G	
Apr 16 2004	8"	25mmPL	CLEAR - MEGASTAR CONTROL	
30	NGC 7331	Peg H53-1	Galaxy SA(s)b	B,PL,PME163,SMBM
Jul 26 2020	12"	17mmT4	NV+IR685 FILTER. PRETTY SMALL. OK FOR GALAXIES	
Jul 17 2020	12"	8mm Et	ALWAYS A HIT.	
Aug 24 2019	12"	8mm Et	B,S,EON,FNUC,R=G	
Aug 02 2019	12"	7mm TV	B,L,EON,R=E. OUTSTANDING	
Sep 02 2016	12"	5.5mmN	PF,PS,EON,BNUC,R=E. SQM-19.96. 56 DEGREES AT 2125 HOURS	
Sep 10 2015	12"	7mm TV	F,PS,EON,FNUC,R=G	
Aug 21 2015	12"	8mm Ds		
Jul 13 2013	18"	7mm TV	EYE CANDY. ALWAYS GREAT TO LOOK AT.	

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30	NGC 7331	Peg H53-1	Galaxy SA(s)b	B,PL,PME163,SMBM
Oct 21 2012	8"	11mmT6	SMALL SPINDLE, NOT ENOUGH APERTURE OR DARK ENOUGH SKIES.	
Oct 07 2010	12"	17mmAT	F,PS,EON,BNUC,HSB,R=G,PA=10	
Sep 13 2009	12"	32mmUW3RD	OBJECT	
Jul 23 2006	8"	11mmT6	PB,PL,EON,FNUC,R=G	
Jul 16 2004	31"	20mmUW9.5	PHOTO MAG. BRIGHTER YET.	
Jul 16 2004	8"	25mmPL	9.5 PHOTO MAG. BRIGHT	
31	IC 405	Aur	Nebula E	
Dec 07 2005	8"	11mmT6	DARK DUSTLANE LOW SURFACE BRIGHTNESS	
32	NGC 4631	CvN H42-5	Galaxy SB(s)d sp	VB,VL,EE70,BMN,*ATTN
May 04 2005	8"	19mmW	MB,ML,EL,EON,FNUC,R=G	
33	NGC 6992	Cyg H14-5	Nebula E	EF,EL,EE,EIF,BIFID
Jul 13 2020	12"	30mmES	OUTSTANDING	
Jun 19 2020	12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	
Jul 01 2016	12"	35mm A	GREAT,R=E!! LP2 FILTER	
Jul 25 2011	12"	32mmUWB,L,R=E!	LP-2 FILTER, WISPY FILLEMENTS	
Jun 20 2007	1.9"	12x50	PF,L,R=F, HINT OF NEBULOSITY	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
34	NGC 6960	Cyg H15-5	Nebula E	PB,CL,EIF,KAPPACYGIN
Jul 13 2020	12"	30mmES	OUTSTANDING	
Jun 19 2020	12"	30mmES	OUTSTANDING OBJECT. LP2 AND OIII FILTERS	
Sep 26 2019	12"	27m PN	OUTSTANDING OBJECT. OIII FILTER	
Sep 26 2019	36"	8mm Et	OUTSTANDING OBJECT IN THE 36" WITH 31MM NAGLER & OIII FILTER	
Jun 28 2019	12"	35mm A	WESTERN VEIL. LP2 FILTER. EXCELLENT OBJECT.	
Jul 08 2018	12"	35mm A	B,L,R=E!! NARROWBAND FILTER	
Jul 19 2017	12"	27m PN	F,L,R=E. LP2. NICE CONTRAST	
Jul 01 2016	12"	35mm A	GREAT,R=E!! LP2 FILTER	
Jul 25 2011	12"	32mmUWB,VL,R=E!!	LP-2 FILTER, EXTENDS N.E. TO S.W WITH N.E. LARGER	
Jun 20 2007	1.9"	12x50	PF,PL,R=F, HINT OF NEBULOSITY	
Jul 16 2004	8"	25mmPL	CLEAR - SEEING NOT TOO BAD	
36	NGC 4559	Com H92-1	Galaxy SAB(rs)cd	VB,VL,ME150,GBM,3*F
Apr 13 2005	8"	7.5mmW	MB,ML,EL,FNUC,R=G	
37	NGC 6885	Vul H20-8	Open Cluster 5.9 III 2 m	CL,VB,VL,RI,LC,*6.11
Jul 13 2020	12"	13mmHWF,S,R=F		
Jul 23 2006	8"	11mmT6	PB,PS,R=F	
38	NGC 4565	Com H24-5	Galaxy SA(s)b? sp	B,EL,EE135,VSBMN=*10
May 31 2019	12"	11mmT6	PF,PS,EON,FNUC,R=G	
May 14 2010	31"	17mmT4	VB,VL,EON,BNUC,HSB,DARK DUST LANE BISECT. FILLS EYEPiece,R=E!!	
May 18 2009	31"	31mmT5	PB,PL,EON,BNUC,HISB,R=E, NICE DUST LANE	
Mar 04 2006	31"	31mmT5	VB,VL,EON,BNUC,HISB,R=G	
Apr 13 2005	8"	7.5mmW	MB,ML,EL,EON,FNUC,R=G	
39	NGC 2392	Gem H45-4	Planetary Neb 3b+3b	B,S,R,*9M,*8NF100"
May 22 2015	12"	8mm Ds	NO FILTER NEEDED CENTRAL STAR VISIBLE	

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39	NGC 2392	Gem H45-4	Planetary Neb 3b+3b	B,S,R,*9M,*8NF100"
Dec 04 2004	8"	7.5mmW	VB,R,HISB,R=E!!!	
Nov 06 2004	8"	11mmT6	NOT A BAD PLANETARY	
40	NGC 3626	Leo H52-2	Galaxy S0-a	B,S,VLE,SBM
Apr 26 2006	8"	11mmT6	B,PS,OVAL,FNUC,MSB,R=F	
Mar 10 2004	8"	25mmPL	N/M, NO COMPUTER	
41	MEL 25	Tau	Open Cluster	
Nov 04 2007	1.9"	12x50	VB,VL,SCATTERED,R=G	
Oct 29 2006	8"	19mmW	B,L,LOOSE,R,R=G	
Dec 15 2004	8"	11mmT6	BRIGHT SCATTERED STARS	
42	NGC 7006	Del H52-1	Globular	B,PL,R,GBM
Jun 19 2020	12"	13mmHWPF,PS,R=F		
Aug 29 2019	12"	11mmT6	PF,S,R=G	
Oct 21 2006	31"	20mmUWFB,L	STELLAR, RESOLVE OUTERMOST STARS.	
Jul 23 2006	8"	7.5mmW	VF,CS,R,R=F	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	
43	NGC 7814	Peg H240-2	Galaxy SA(s)ab: sp	CB,CL,E,VGBM
Oct 09 2018	12"	8mm Et	F,S,OVAL,MEXTY,R=F	
Sep 24 2016	12"	8mm Et	B,S,EON,FNUC,R=G	
Aug 21 2015	12"	8mm Ds		
Aug 25 2009	16"	11mmT6	PF,PS,EON,FNUC,R=F	
Oct 30 2008	16"	17mmT4	PF,PS,OVAL,UB,NND,R=F	
Nov 10 2007	31"	17mmT4	PB,PL,EL,OVAL,UB,NND,R=G	
Jul 23 2006	8"	11mmT6	CF,CS,OVAL,NND,AV,R=F	
Aug 21 2004	8"	11mmT6	CLEAR SKIES - H.H. LITE. 1ST REAL TEST	
44	NGC 7479	Peg H55-1	Galaxy SB(s)c	PB,CL,ME12,BET2ST
Sep 24 2016	12"	8mm Et	F,S,R,UB,NND,R=F	
Sep 19 2004	8"	7.5mmW	VF,EL,NND,R=F	
45	NGC 5248	Boo H34-1	Galaxy SAB(rs)bc	B,L,E150,PSBMRN
Jun 03 2019	12"	8mm Et	PF,PS,R,FNUC,R=F	
Jul 01 2016	12"	8mm Et	MB,ML,OVAL, FNUC,R=G	
May 04 2005	8"	11mmT6	MB,ML,OVAL,FNUC,R=G	
46	NGC 2261	Mon H2-4	Nebula E+R	B,VME330,N COM=*11
Mar 28 2011	12"	11mmT6	VF,VS,R=F,OIII	
47	NGC 6934	Del H103-1	Globular	GCL,B,L,R,RRR,*16...
Jun 19 2020	12"	13mmHWB,PS,R=G		
Aug 29 2019	12"	11mmT6	B,S,R=G. NICE GLOB.	
Oct 25 2009	12"	11mmT6	PB,PS,R=G. RESOLVE OUTER STARTS ONLY	
Aug 31 2008	31"	17mmT4	PB,PS,R=G	
Oct 08 2006	1.9"	12x50	F,S,R=F, SMALL SMUDGE.	
Aug 20 2006	1.9"	12x50	B,L,R=G	
Jul 23 2006	8"	7.5mmW	PB,CS,R,R=G	
Jun 26 2004	8"	25mmPL	CLOUDS EARLY - GIBBOUS MOON	

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48	NGC 2775	Cnc H2-1	Galaxy SA(r)ab	CB,CL,R,VGVSMBM,R
Mar 15 2005	8"	11mmT6	MB,ML,OVAL,PATCH,NND,R=G	
49	NGC 2237	Mon	Nebula E	PB,VVL,DIF,(2238)
Feb 10 2005	8"	11mmT6	VB,VL,R=G	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
50	NGC 2244	Mon H2-7	Open Cluster 7.0 II 3 r n	CL,BEAUTIFUL,STSC
Mar 08 2007	1.9"	12x50	PB,S,VFAINT NEBULOSITY,R=F	
Feb 10 2005	8"	11mmT6	VB,VL,R=G	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
52	NGC 4697	Vir H39-1	Galaxy E6	VB,L,LE45,SMBMN
Apr 28 2006	31"	19mmW	CB,VL,OVAL,VBNUC,VHISB,R=G	
Apr 14 2004	8"	25mmPL	CLEAR NIGHT - MEGASTAR CONTROL	
53	NGC 3115	Sex H163-1	Galaxy S0- sp	VB,L,VME46,VGSMBMEN
Mar 15 2005	8"	11mmT6	VB,ML,EL,EON, FNUC,MSB,R=G	
54	NGC 2506	Mon H37-6	Open Cluster 11.0 I 2 r	CL,PL,VRI,C,*11...20
Mar 29 2006	8"	19mmW	PF,PS,R=F, NICE GROUP	
55	NGC 7009	Aqr H1-4	Planetary Neb 4+6	PLN,VB,S,ELLIPTIC
Aug 29 2019	12"	11mmT6	B,PS,R=G. LP2.	
Oct 09 2018	12"	8mm Et	B,S,R=G. NO FILTER. CAN EASILY SEE APPENDEGES	
Jul 08 2018	12"	8mm Et	B,MS,R=G. SATURN NEBULA	
Aug 21 2015	12"	8mm Ds		
Oct 29 2006	8"	19mmW	F,VS,OVAL,R=F	
Sep 27 2005	31"	17mmT4	VB,VL,OVAL,HISB,R=G!!	
Jul 08 2004	31"	17mmT4	GREAT IN THE BIG ONE!	
Jul 08 2004	8"	25mmPL	SMALL IN 8_DOBSON	
56	NGC 246	Psc H25-5	Planetary Neb 3b	VF,L,4*IN DIF NEB
Nov 28 2010	12"	7mm TV	PF,PS,R=F,IRREGULAR SHAPE, NO CENTRAL STAR, OIII HELPS	
Nov 21 2006	8"	11mmT6	F,L,R,R=G	
57	NGC 6822	Sgr	Galaxy IB(s)m	VF,L,E,DIF
Sep 04 2004	8"	11mmT6	VF,L,OVAL,NND,R=F	
Jul 08 2004	8"	25mmPL	VERY CLEAR NIGHT - LEFT AT 1:00AM	
58	NGC 2360	CMa H12-7	Open Cluster 10.4 I 3 r	CL,VL,RI,PC,ST9...12
Mar 13 2007	8"	19mmW	F,S,R=F,RESOLVE 7+ STARS	
Dec 18 2006	1.9"	12x50	F,S,R=F,UNCOMPRESSED GROUP	
Mar 13 2004	8"	25mmPL	COMPUTER = ARGO NAVIS	
59	NGC 3242	Hya H27-4	Planetary Neb 4+3b	PLN,VB,LE147,45"D
May 22 2015	12"	8mm Ds	NO FILTER CENTRAL STAR NOT VISIBLE	
Apr 08 2005	8"	7.5mmW	VB,VL,R,R=G	
60	NGC 4038	Crv H28.1-4	Galaxy SB(s)m pec	PB,CL,R,VGBM
Apr 20 2018	12"	11mmT6		
Apr 14 2016	12"	8mm Ds	PF,PS,UB,NND, NOT MUCH TO SEE IN MOON AND LOW HORIZON	
Apr 19 2007	31"	17mmT4	PB,CL,OVAL,UB,NND,R=G	

Caldwell Observation

60	NGC 4038	Crv H28.1-4	Galaxy SB(s)m pec	PB,CL,R,VGBM
Apr 13 2005	8"	7.5mmW	VF,VS,NND,AV,R=F	
61	NGC 4039	Crv H28.2-4	Galaxy SA(s)m pec	PF,PL
Apr 20 2018	12"	11mmT6		
Apr 14 2016	12"	8mm Ds	PF,PS,UB,NND, NOT MUCH TO SEE IN MOON AND LOW HORIZON	
Apr 19 2007	31"	17mmT4	PB,CL,OVAL,UB,NND,R=G	
Apr 13 2005	8"	7.5mmW	VF,VS,NND,AV,R=F	
62	NGC 247	Cet H20-5	Galaxy SAB(s)d	F,EL,VME172
Nov 21 2006	8"	19mmW	F,L,EON,NND,R=F	
63	NGC 7293	Aqr	Planetary Neb 4+3	PF,VL,E OR BIN
Aug 29 2019	12"	11mmT6	F,L,R=G. LP2	
Oct 09 2018	12"	8mm Et	F,L,R=G. LP2	
Sep 05 2010	12"	11mmT6	B,PS,R=G. CENTRAL STAR NOT NOTED. OIII FILTER ADDS DETAIL.	
Nov 09 2004	8"	11mmT6	NICE - ALMOST ROUND PATCH! LARGE.	
64	NGC 2362	CMa H17-7	Open Cluster 8.0 I 3 r	CL,PL,RI,30CMA
Feb 10 2005	8"	11mmT6	VB,ML,R,R=G	
65	NGC 253	Sci H1-5	Galaxy SAB(s)c	VVB,VVL,VME54,GBM
Nov 04 2007	1.9"	12x50	PB,PL,EL,OVAL,UB,ND,R=G	
Nov 21 2006	8"	11mmT6	B,PL,EON,NND,R=G	
66	NGC 5694	Hya H196-2	Globular	CB,CS,R,PSBM,R,*9SP
Apr 13 2005	8"	7.5mmW	VS,VF,R,R=F	
67	NGC 1097	For H48-5	Galaxy SB(s)b	VB,L,VME151,VBMN
Nov 21 2006	8"	11mmT6	F,L,OVAL,FNUC,R=F	
69	NGC 6302	Sco	Planetary Neb 6	PB,E PF,(SWIFT,TRIP)
Jul 07 2018	12"	8mm Et	PB,S,R=E. OIII FILTER	
Jul 09 2005	8"	11mmT6	MB,VS,R,R=G	
75	NGC 6124	Sco	Open Cluster 9.0 I 3 r	CL,B,L,PRI,LCM,*9.11
Jun 23 2004	8"	25mmPL	QUARTER MOON, LEFT @1:30AM.	
77	NGC 5128	Cen	Galaxy S0 pec	VB,VL,VME122,BIFID
Mar 21 2009	31"	17mmT4	DIFF,VL,VF,NND,LSB,R=F	
<i>Total:</i>	<i>68</i>			