

Carbon Star Log				Location:	Name:
Star Name		Data		Notes	Sketch
1	Cas	Date 10/18/23	Time 10:10 pm		
WZ Cas		See/Transp	Inst/Power 212x	Not reddish Bronze color.	
6.9-11.0	186	00 01 15	+60 21 19	(Lake city Co Dark Skies)	
SAO 21002 HIP 99 HD 224855				C9(N1)	
2	And	Date 10/19/23	Time 8:06 pm	Nice bronzy color. Star out	
SU And		See/Transp	Inst/Power 212x	well in 12.5m.	
8.0-8.5	Irr.	00 04 36	+43 33 04	(Lake city Co Dark Skies)	
GSC 2793:243 HIP 363 HD 225217				C6(Nb)	See Drawing #7
3	Psc	Date 10/19/23	Time 8:19 pm	light bronze color. Easy find in 12.5m	
SAO 109003		See/Transp	Inst/Power	(Lake City Co Dark Skies)	
8.2-8.3	?	00 05 22	+08 47 16		
GSC 594: 778 HIP 447 HD 26				C(G4V)	
4	And	Date 10/19/23	Time 8:44 pm	Not Bronzy - Yellow color	
VX And		See/Transp	Inst/Power 212x	Nice PIV	
7.8-9.3	369	00 19 54	+44 42 33	(Lake City Co Dark Skies)	
GSC 2794:14 HIP 1593 HD 1546				C4(N7)	
5	And	Date 10/19/23	Time 8:42 pm	Not Bronze / yellow color	
AQ And		See/Transp	Inst/Power 212x	Very Nice	
6.9-8.6	346	00 27 31	+35 35 14	(Lake city Co Dark Skies)	
GSC 2270:318 HIP 2180 HD 2342				C5 (Nb)	
6	And	Date 10/19/23	Time 8:51 pm	light pinkish Red color. Located in	
NSV 15196		See/Transp	Inst/Power 212x	Somewhat barren FOV	
8.3-8.7	755	00 54 13	+24 04 01	(Lake City Co Dark Skies)	
SAO 74353 HIP 4252 HD 5523				C1 (Rp)	
7	Cas	Date 10/18/23	Time 10:19 pm	very faint dark reddish color	
W Cas		See/Transp	Inst/Power 212x	* it's faintest mag. See drawing #2	
7.8-12.5	406	00 54 53	+58 33 49	(Lake city Co Dark Skies)	
GSC 368:1824 HIP 4284 HD 5235				C7	
8	Psc	Date 10/19/23	Time 9:00 pm	yellowish / Bronze. Somewhat	
Z Psc		See/Transp	Inst/Power	barren FOV	
6.5-7.9	144	01 16 05	+25 46 09	(Lake city Dark Skies)	
SAO 74593 HIP 5914 HD 7561				C7 (N0)	

Carbon Star Log				Location:	Name:
Star Name	Data			Notes	Sketch
9	Ari	Date 10/19/23	Time 9:13 pm	yellowish/pink BATTEN FOV	
V Ari	See/Transp	Inst/Power 212x		(Lake City Co Dark Skies)	
8.3 - 10.8	77	02 15 00	+12 14 23		
SAO 92853 HIP 10472 HD 13826			C4 (R8)		
10	Cet	Date 10/19/23	Time 11:44 pm	Brt Pinkish/white color. Npc 988 with Brt*	
SAO 129989	See/Transp	Inst/Power 212x		in NW tip. Doesn't look like a carbon *.	
8.2 - 8.5	?	02 35 06	-09 26 34	(Lake City Co Dark Sky)	
GSC 52853 HIP 12028 HD 16115			C2 (R3)		
11	And	Date 10/19/23	Time 9:26 pm	Light Pinkish color. Nice FOV	
UY And	See/Transp	Inst/Power 212x		(Lake City Co Dark Skies)	
7.4-12.3	?	02 38 23	+39 10 09		
GSC 2832.2 HIP 12298 HD 16326			C5(N3)		
12	Cas	Date 10/18/23	Time 10:57 pm	not much color. Brt Blueish.	
V623 Cas	See/Transp	Inst/Power 212x		(Lake City Co Dark Skies)	
7.3-8.1	?	03 11 25	+57 54 11		
SAO 23858 HIP 14827 HD 19557			C4(R5)		
13	Per	Date 10/19/23	Time 9:30 pm	yellowish/pinkish color. Rich FOV.	
Y Per	See/Transp	Inst/Power 212x		one of the Brttest *'s in FOV	
8.1-11.3	249	03 27 42	+44 10 36	(Lake City Co Dark Skies)	
ISC 2873:1287 HIP 16126 HD 2128			C4(R4)		
14	Per	Date 10/19/23	Time 10:12 pm	Brt Bronzish/Reddish color. Stands out	
V466 Per	See/Transp	Inst/Power 212x		well in FOV. Rich * FOV.	
8.4-8.9	?	03 41 29	+51 30 11	(Lake City Co Dark Sky)	
NSV 1223 HD 232820			C5(N5)		
15	Cam	Date 10/19/23	Time 10:37	Brt Bronze/copper color. Very nice FOV.	
U Cam	See/Transp	Inst/Power 212x		Rich * field. Stands out well.	
6.9-7.6	?	03 41 48	+62 38 54	(Lake City Co Dark Skies)	
SAO 12870 HIP 17257 HD 22611			C3-C6(N5)		
16	Cam	Date 10/19/23	Time 10:49 pm	Reddish/Bronze. Nice FOV. Other B*	
UV Cam	See/Transp	Inst/Power 212x		in FOV. Rich * FOV	
7.5-8.1	294	04 05 53	+61 47 39	(Lake City Co. Dark Skies)	
SAO 13009 HIP 19115 HD 25408			C5(R8)		

Carbon Star Log				Location:	Name:
Star Name	Data			Notes	Sketch
17	Cam	Date 10/19/23	Time 11:01 pm	Brt yellowish/white. Brtest objection FOV.	
XX Cam	See/Transp	Inst/Power 212x		Rich *FOV. Very Nice	
7.1-10.0	?	04 08 38	+53 21 39	(Lake city co Dark Skies)	
SAO 24431 HIP 19340 HD 25878			C0-C2(G1)		
18	Cam	Date 10/19/23	Time 11:27 pm	Brt Blueish/white color Brtest in FOV	
ST Cam	See/Transp	Inst/Power 212x		Rich *Field. took awhile to confirm	
6.7-8.4	300	04 51 13	+68 10 07	(Lake City Co Dark Skies)	
SAO 13285 HIP 22552 HD 30243			C5(N5)		
19	Tau	Date 10/19/23	Time 12:00 AM	Brt Bronze/Reddish nice FOV. Stands out	
TT Tau	See/Transp	Inst/Power 212x		well	
7.7-10.0	167	04 51 31	+28 31 36	(Lake City Co. Dark Skies)	
SAO 76788 HIP 22578 HD 30755			C4-C7(N3)		
20	Lep	Date 10/19/23	Time 2:56 AM	Dull Reddish/white. Other FOV * slightly	
R Lep	See/Transp	Inst/Power 212x		Brighter. Easy find. Stands out well.	
5.5-11.7	427	04 59 36	-14 48 22	(Lake city co Dark Skies)	
SAO 150058 HIP 23203 HD 31996			C7(N6)		
21	Aur	Date 10/19/23	Time 12:11 AM	Nice copper/yellow color. Nice FOV.	
EL Aur	See/Transp	Inst/Power 212x		easy find.	
8.5-8.7	Irr.	05 03 23	+50 37 58	(Lake city co. Dark Skies)	
SAO 24981 HIP 23520 HD 32088			C5(N3)		
22	Ori	Date 10/19/23	Time 2:25 AM	Brt Copper/yellowish. Brtest in FOV. Nice	
W Ori	See/Transp	Inst/Power 212x		Easy find.	
5.8-10.0	212	05 05 23	+01 10 39	(Lake city co Dark Sky)	
SAO 112406 HIP 23680 HD 32736			C5(N5)		
23	Aur	Date 10/19/23	Time 12:27 AM	Kinda faint. Pinkish/Reddish. Rich *FOV	
TX Aur	See/Transp	Inst/Power 212x		Nice	
8.5-9.2	Irr.	050905	390008	(Lake city co Dark skies)	
GSC 2895: 203 HIP 23965 HD 3301			C5(N3)		
24	Eri	Date 10/19/23	Time 2:39 AM	light copper/yellowish. FOV *'s some same	
SY Eri	See/Transp	Inst/Power		Magnitude. Easy find. Stands out well.	
8.3-10.0	96	050948	-053055	(Lake city co Dark Skies)	
SAO 131832 HIP 24025 HD 33404			C6(N0)		

Carbon Star Log				Location:	Name:
Star Name		Data		Notes	Sketch
25	Aur	Date 10/19/23	Time 12:37AM	Kind of faint. Bluish. Not a good carbon *	
UV Aur		See/Transp	Inst/Power 212x	Rich * FOV	
7.4-10.6	394	052148	323043	(Lake city co dark sky)	
SAO 57941 HIP 25050 HD 34842		C6-C8(Nc)			
26	Aur	Date 10/19/23	Time 12:50AM	No so bnt. Reddish color. Star hopped to it.	
S Aur		See/Transp	Inst/Power 212x	Rich * FOV. Nice FOV. Better *s around.	
8.2-13.3	590	052707	340859	(Lake city co. Dark sky)	
GSC 2411:222 HD 35556		C4/5(N3)			
27	Ori	Date 10/19/23	Time 2:12AM	Reddish/yellow. Slightly better than FOV *s	
RT Ori		See/Transp	Inst/Power	Nice.	
8.0-8.9	321	053313	070912	(Lake city co Dark sky)	
GSC 126: 161 HIP 26032 HD 36602		C6(Nb)			
28	Cam	Date 10/19/23	Time 1:11AM	Not very bnt. Star hopped. Reddish/pink.	
S Cam		See/Transp	Inst/Power 212x	Nice FOV. Rich * field.	
7.7-11.6	327	054102	684755	(Lake City Co. Dark sky)	
SAO 13563 HIP 26753 HD 36972		C7(R8)			
29	Tau	Date 10/19/23	Time 1:32AM	Pinkish Red. Rich * FOV. other *s sim mag.	
TU Tau		See/Transp	Inst/Power 212x	Star hopped. Nice FOV.	
5.9-9.2	190	054513	242512	(Lake city co. Dark sky)	
SAO 77502 HIP 27135 HD 38218		c5(N3)			
30	Tau	Date 10/19/23	Time 1:42AM	Not bnt/yellow. Very nice. Better in FOV.	
Y Tau		See/Transp	Inst/Power 212x	Rich * field.	
6.5-9.2	242	054539	204142	(Lake city co Dark sky)	
SAO 77516 HIP 27181 HD 38307		C6.5(N3)			
31	Aur	Date 10/19/23	Time 1:52AM	Reddish/yellow. Not bntest * in FOV. Nice FOV	
FU Aur		See/Transp	Inst/Power 212x		
8.3-8.5	?	054808	303751	(Lake City co Dark sky)	
SAO 58449 HIP 27398 HD 38572		C7(N0)			
32	Gem	Date 11/11/23	Time 11:56pm	Nice. Not yellow/reddish / orange.	
TU Gem		See/Transp	Inst/Power 212x	Best in FOV.	
7.4-8.4	230	061053	2600d 53'		
SAO 78066 HD 42272		C6(N3)			

Carbon Star Log				Location:	Name:
Star Name		Data		Notes	Sketch
33	Mon	Date 11/11/23	Time 12:14 AM	yellow/pinkish. One of the brightest in the FOV. Stands out OK in FOV	
FU Mon		See/Transp	Inst/Power 212X		
8.5-9.8	310	06 22 23	+03 25 27		
GSC 136: 183 HIP 30301 HD 44544		C8 (CSe)			
34	Aur	Date 11/11/23	Time 11:48 pm	St. not much better than the faintest *'s in FOV. Star Hopped in Eye piece.	
V Aur		See/Transp	Inst/Power 212X		
8.5-13.0	333	06 24 02	474223	Hint of st pinkish color.	
SC 3380: 1119 HIP 30449 HD 4438		C6 (N3)			
35	Ori	Date 11/11/23	Time 12:21 AM	Not yellow/copper	
BL Ori		See/Transp	Inst/Power 212X	Best in FOV. Rich FOV of Brt & ft *'s.	
6.0-7.0	154	062528	144319	Very Nice FOV.	
SAO 95659 HIP 30564 HD 44984		C6 (Nb, Tc)			
36	Aur	Date 11/11/23	Time 12:32 AM	Very nice. Not yellow/Brnze/Red	
UU Aur		See/Transp	Inst/Power 212X	Very nice FOV. Best in FOV	
5.1-7.0	234	063632	382643	Rich * field.	
SAO 59280 HIP 31579 HD 46687		C5 - C7(N3)			
37	Gem	Date 11/11/23	Time 12:41 AM	yellowish/copper in FOV with SIM MAG	
VW Gem		See/Transp	Inst/Power 212X	*'s.	
8.1-8.5	Irr.	064208	312717		
SAO 59383 HIP 32083 HD 47883		C5 (Na)			
38	Mon	Date 11/11/23	Time 12:56 AM	yellowish/Red. As Brt as Brkr FOV's	
GY Mon		See/Transp	Inst/Power 212X	Stands out well.	
8.1-9.0	Irr.	065311	-043434		
SAO 133825 HIP 33059 HD 50436		C6 (N3/R8)			
39	Mon	Date 11/11/23	Time 1:03 AM	Not yellowish/Red/Brnze. Rich * field	
RV Mon		See/Transp	Inst/Power 212X	Stands out well.	
7.0-8.9	132	065821	061001		
SAO 114704 HIP 33550 HD 51620		C4-C6(Nb/R9)			
40	Mon	Date 11/11/23	Time 1:14 AM	Very rich * FOV. yellow/reddish. As Brt as	
V614 Mon		See/Transp	Inst/Power 212X	Other Brt *'s in FOV. Nice FOV	
7.0-7.4	60	070101	-031509	(Last one)	
SAO 134049 HIP 33794 HD 52432		C4(R5)			

Carbon Star Log				Location: Warren Rupp Observatory		Name: Bruce Sedore	
Star Name		Data		Notes		Sketch	
41	Mon	Date 3/19/23	Time 10:17 pm	Brt dull reddish			
RY Mon		See/Transp	Inst/Power 184	Beautiful FOV. Many Brt* with			
7.5-9.2	456	070656	-073326	same top stars.			
SC 5381: 403 HIP 34326 TYC 5381-403			C5-C7(N5/R)				
42	Cma	Date 3/19/23	Time 10:28 pm	Brt Reddish Bronze			
W Cma		See/Transp	Inst/Power 184x	FOV STARS somewhat same mag.			
6.4-7.9	Irr.	070803	-115523				
SAO 152427 HIP 34413 HD 54361			C6(N)				
43	Cmi	Date 3/19/23	Time 10:32 pm	Nice Reddish			
R Cmi		See/Transp	Inst/Power 184x				
7.3-11.6	338	070842	100126				
SAO 96548 HIP 34474 HD 54300			C7(Csep)				
44	Gem	Date 3/19/23	Time 10:39	pall reddish			
BM Gem		See/Transp	Inst/Power 184x	pgc 20726 close by			
8.3-9.2	286	072059	245958	pgc 20744 farther NW			
C 1913: 1170 HIP 35617 TYC 1913-117			C5(Nb)				
45	Cam	Date 3/19/23	Time 10:54	pinkish white, not very reddish			
RU Cam		See/Transp	Inst/Power 184x				
8.1-9.8	22	072144	694014				
SAO 14157 HIP 35681 HD 56167			C0-C3(K0-R0)				
46	Gem	Date 3/19/23	Time 11:05 pm	Reddish/pink/yellowish color			
NQ Gem		See/Transp	Inst/Power 184x				
7.4-8.0	70	073154	243012				
SAO 79474 HIP 36623 HD 59643			C6(R9)				
47	Pup	Date 3/19/23	Time 11:16 pm	Reddish/yellowish			
RU Pup		See/Transp	Inst/Power 184x	fair FOV #'s. Not really any			
8.1-11.1	425	080729	-225445	Bright #'s.			
SAO 175215 HIP 39751 HD 67507			C5(N3)				
48	Cnc	Date 3/19/23	Time 11:30 pm	very bright pinkish/reddish			
X Cnc		See/Transp	Inst/Power 184x	Barren FOV. only a few #'s.			
5.6-7.5	195	085522	171352				
SAO 98230 HIP 43811 HD 76221			C5(N3)				

Carbon Star Log			Location: <i>Warren Rupp Observatory</i>		Name: <i>Bruce Sedgwick</i>
Star Name		Data		Notes	Sketch
49	Cnc	Date <i>3/19/23</i>	Time <i>184X</i>	<i>Dull reddish - Brong</i>	
T Cnc		See/Transp	Inst/Power <i>11:35</i>	<i>barren * Fov.</i>	
7.6-10.5	482	085640	193056		
SAO 80524 HIP 43905 TYC 1397-648-1			C3-C5(R6-N6)		
50	Hya	Date <i>3/19/23</i>	Time <i>12:11 AM</i>	<i>Very Nice, but Brongish. Brightest</i>	
Y Hya		See/Transp	Inst/Power <i>184x</i>	<i>object in Fov. Very good.</i>	
6.5-9.0	303	095103	-230102		
SAO 178088 HIP 48327 HD 85495			C5(N3)		
51	Hya	Date <i>3/19/23</i>	Time <i>12:17 AM</i>	<i>Very Bright Pinkish/yellowish</i>	
U Hya		See/Transp	Inst/Power <i>184x</i>	<i>Brightest object in Fov. barren</i>	
4.5-6.2	450	103733	-132304	<i>Fov. Excellent</i>	
SAO 156110 HIP 52009 HD 92055			C6.5(N2)		
52	Uma	Date <i>3/19/23</i>	Time <i>12:24 AM</i>	<i>Very but reddish. Brightest object</i>	
VY UMa		See/Transp	Inst/Power <i>184x</i>	<i>in Fov. 10-15 slightly fainter * 1/2 in</i>	
5.9-7.0	Irr.	104504	672440	<i>Fov. very nice.</i>	
SAO 15274 HIP 52577 HD 92839			C6(N0)(N6e)		
53	Hya	Date <i>3/19/23</i>	Time <i>10:42 AM</i>	<i>Very nice. But reddish/yellowish</i>	
V Hya		See/Transp	Inst/Power <i>184x</i>	<i>Brightest * in Fov. A 15-20 fainter</i>	
6.5-12.0	531	105137	-211500	<i>* in Fov.</i>	
SAO 179278 HIP 53085			C6-C7		
54	Vir	Date <i>3/19/23</i>	Time <i>2:56 AM</i>	<i>core double *. Very little reddish</i>	
SS Vir		See/Transp	Inst/Power <i>184x</i>	<i>color detected.</i>	
6.0-9.6	364	122514	004610	<i>ERROR: looked 54 VIR not SS VIR</i>	
SC 282:753 HIP 120212 HD 10810			C6(Ne)	<i>=> Need to redo observation</i>	
55	CVn	Date <i>3/19/23</i>	Time <i>3:07 A</i>	<i>Best Reddish orange</i>	
Y CVn		See/Transp	Inst/Power <i>184x</i>	<i>very nice Fov</i>	
4.8-6.4	157	124507	452624		
SAO 44317 HIP 62223 HD 110914			C5(N3)		
56	Dra	Date <i>3/19/23</i>	Time <i>3:14 AM</i>	<i>Brightest object in Fov. But reddish/</i>	
RY Dra		See/Transp	Inst/Power <i>184x</i>	<i>orange. Very nice</i>	
6.0-8.0	200	125625	655939		
SAO 15945 HIP 63152 HD 112559			C4(N4p)		

finds 2/2/2020/2021

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1/1/2020

Carbon Star Log				Location:	Name: Bruce Scudera
Star Name	Data		Notes		Sketch
57	Vir	Date 4/12/23	Time 12:58	Brt. whitish-pinkish.	
SAO 157721	See/Transp	Inst/Power 336X		more white than hint of Red.	
8.5-8.5	?	130624	-200331		
C 6118:1194 HIP 63955 TYC 6118-119				C2(K5p)	
58	CrB	Date 4/18/23	Time 2:26 AM	Bronzeish color. brt in Fov & close by	
V CrB	See/Transp	Inst/Power 336X			
6.9-12.6	358	154931	393417		
SAO 64929 HIP 77501 HD 141826				C6(N2e)	
59	Her	Date 4/18/23	Time 2:38 AM	Brt Bronz color. Nice Fov	
RR Her	See/Transp	Inst/Power 336X			
7.8-12.5	240	160413	502956		
SAO 29781 HIP 78721 HD 144578				C5-C8(N0e)	
60	Oph	Date 4/18/23	Time 2:50 AM	brt Bronze-reddish	
V Oph	See/Transp	Inst/Power 336X			
7.3-11.6	297	162643	-122535		
SAO 159916 HIP 80550 HD 14818				C5-C7(N3e)	
61	Her	Date 4/18/23	Time 3:06 AM	not much reddish color. light pink/yellowish	
SAO 46574	See/Transp	Inst/Power 336X			
7.3-7.7	?	171331	420622		
SC 3081: 810 HIP 84266 HD 15607				C3(RU)	
62	Oph	Date 4/18/23	Time 4:15 AM	Very brt bronzish-red. Brt in Fov	
TW Oph	See/Transp	Inst/Power 336X			
7.0-9.0	185	172943	-192822		
SC 6243: 462 HIP 85617 HD 15837				C5(Nb)	
63	Sgr	Date 4/18/23	Time 4:36 AM	light pinkish color. brt in Fov.	
SZ Sgr	See/Transp	Inst/Power 336X			
8.2-9.2	73	174456	-183926		
SAO 160795 HIP 86873 HD 16120				C7(Nb)	
64	Dra	Date 6/10/23	Time 11:19 pm	very faint. took a while to locate. very little reddish color	
T Dra	See/Transp	Inst/Power 212X			
7.2-13.5	422	175623	581306		
GSC 3914: 546 HIP 87820				C6-C8(N0e)	

12.5"

Carbon Star Log				Location:	Name:
Star Name		Data		Notes	Sketch
12.5"	65	Ser	Date 6/10/23 Time 2:14 AM	Loc good. Rich Fov of Stars.	
	FO Ser		See/Transp Inst/Power 212 X	Slightly reddish tint detected.	
	8.5-8.7	Irr.	181921 -153646		
	SAO 161327 HIP 89783 HD 16822		C4(R6)		
12.5"	66	Her	Date 6/10/23 Time 1:50 AM	Best in Fov. Slight bronze color.	
	AC Her		See/Transp Inst/Power 212 X		
	6.9-9.0	75	183016 215200		
	SAO 86134 HIP 90967 HD 170756		F2plb-K4e)		
12.5"	67	Lyr	Date 6/10/23 Time 1:44 AM	Beautiful Bronze color.	
	T Lyr		See/Transp Inst/Power 212 X		
	7.5-9.3	Irr.	183220 365955		
	AO 67087 HIP 90883 TYC 2636-1142-		C6(R6)		
12.5"	68	Lyr	Date 6/10/23 Time 1:52 AM	Very nice Bronze color	
	HK Lyr		See/Transp Inst/Power 212 X	Very similar to #67 Above	
	7.8-9.6	Irr.	184250 365730		
	SC 2649: 507 HIP 91774 HD 17329		C6(N4)		
12.5"	69	Sct	Date 6/10/23 Time 2:05 AM	Very hot Bronze color with yellowish tint	
	S Sct		See/Transp Inst/Power 212 X	Very rich Fov of Stars	
	6.3-9.0	148	185820 -075427		
	AO 142674 HIP 92442 HD 17432		C6(N3)		
12.5"	70	Aql	Date 6/10/23 Time 2:14 AM	Bronze - reddish color	
	UV Aql		See/Transp Inst/Power 212 X	Stands out in Fov	
	8.0-9.6	386	18 58 32 +14 21 49		
	GSC 1051:51 HIP 93158 HD 17620		C5(N4)		
12.5"	71	Aql	Date 6/10/23 Time 2:22 AM	Bronze - red. hot in Fov	
	V Aql		See/Transp Inst/Power 212 X		
	6.6-8.4	353	190424 -054105		
	SAO 142985 HIP 93666 HD 17733		C5-C6(N6)		
12.5"	72	Sgr	Date 6/10/23 Time 2:29 AM	Reddish yellow.	
	V1942 Sgr		See/Transp Inst/Power	Stands out well in Fov	
	6.7-7.0	Irr.	191909 -155430		
	SAO 162465 HIP 94940 HD 18095		C6(N2/R8)		

Carbon Star Log				Location:	Name:
Star Name		Date	Time	Notes	Sketch
73	Lyr	11/7/23	8:32 pm	Just outside of OC Nge 6791.	
U Lyr		11/7/23	Inst/Power 212X	Somewhat a reddish tint. Br too of the	
8.3 - 13.5	452	19 20 09	+37 52 36	3 Δ's	
GSC 3134:1708 TYC 3134-1708-1			C4 (N0e)		
74	Dra	11/7/23	8:57 pm	Locate 59 dra first, then straight East	
UX Dra			Inst/Power 212X	Br + bronze / yellowish color. Nice FOV	
5.9-7.1	168	192135	763334		
SAO 9404 HIP 95154 HD 183556			C7(N0)		
75	Aql	9/16/23	10:51	pretty bright. yellowish bronze color	
NSV 11960			Inst/Power 212X		
7.0 - 7.1	?	19 23 10	-10 42 11		
SAO 162551 HIP 95289 HD 18204			C2 (R0)		
76	Cyg	9/16/26	11:14	Very bright. Copper color	
AW Cyg			Inst/Power 212X	Aludate for #76 is in #77	
7.1 - 8.5	340	19 28 47	+46 02 38		
C 3543: 2275 HIP 95777 TYC 3543-227			C4 (N3)		
77	Sgr	11/7/23	9:20 pm	not much color very tight Δ of Δ's	
AQ Sgr			Inst/Power 212X	Aludate for #77 is in #76	
6.6 - 8.5	200	19 34 18	-16 22 27		
SAO 162777 HIP 96255 HD 18428			C7 (N3)		
78	Cyg	11/7/23	9:42 pm	Br + yellowish / red color very rich & FOV	
TT Cyg			Inst/Power 212X	Nice FOV	
7.0 - 9.1	118	19 40 57	+32 37 05		
SAO 68688 HIP 96836 HD 186047			C5 (N3e)		
79	Cyg	11/7/23	9:55	Pinkish red. in Br & FOV. Not the	
AX Cyg			Inst/Power 212X	brightest * in the FOV	
7.9 - 8.8	Irr.	19 57 12	+44 15 40		
SC 3149: 942 HIP 98190 HD 18925			C4 (N6)		
80	Aql	11/9/23	5:55 pm	Br + bronze / yellow. Not brightest in FOV	
VI469 Aql			Inst/Power 212X		
8.4 - 8.7	98	20 01 03	+09 30 51		
SAO 125356 HIP 98538 HD 18971			C4 (N0v)		

Carbon Star Log				Location:	Name:
Star Name		Data		Notes	Sketch
81	Sge	Date 11/9/23	Time 6:23 pm	yellowish-red color. Not Br test in Fov.	
BF Sge		See/Transp	Inst/Power 212x	Rich Fov of ft's.	
8.5 - 10.0	177	20 02 23	+21 05 24		
SC 1629: 945 HIP 98662 HD 19004		C4 (N3)			
82	Sge	Date 11/9/23	Time 6:29 pm	yellowish-orange. fairly bright. Not Br test	
X Sge		See/Transp	Inst/Power 212x	in Fov	
7.0 - 9.7	196	20 05 05	+20 38 51	Very rich *fov of ft's. Nice	
HD 190606 HIP 98909 HD 190606		C6 (N3)			
83	Cyg	Date 11/7/23	Time 10:18 pm	very brt yellowish with hint of pink.	
SV Cyg		See/Transp	Inst/Power 212x	Brightest in Fov.	
8.5 - 8.7	?	20 09 30	+47 52 17		
SC 3563: 462 HIP 99310 HD 19173		C5 - C7 (N3)			
84	Cyg	Date 11/7/23	Time 10:34 pm	Faint pinkish. Not Many other Br test ft's	
RY Cyg		See/Transp	Inst/Power 212x	in Fov. Rich Fov. Need to Star hup Fov	
8.5 - 10.3	Irr.	20 10 23	+35 56 50	From OC N4c 6883. Not very impressive	
GSC 2683: 3082 HD 191783		C4 - C6 (N)			
85	Cyg	Date 11/7/23	Time 10:46 pm	Nice bronze/reddish color. Not the brightest	
RS Cyg		See/Transp	Inst/Power 212x	* in Fov.	
6.5 - 9.5	417	20 13 23	+38 43 44		
SAO 69636 HIP 99653 HD 192443		C8 (N0pe)			
86	Cap	Date 11/7/23	Time 6:51 pm	Brt yellowish-orange. Similar to others with	
RT Cap		See/Transp	Inst/Power 212x	other ft's in Fov. But slightly Br test.	
7.0 - 8.1	393	20 17 06	-21 19 04		
GSC 6340: 1015 HIP 99990 HD 192737		C6 (N3)			
87	Cyg	Date 11/7/23	Time 10:53 pm	Dark reddish blood color. Not the brightest	
U Cyg		See/Transp	Inst/Power 212x	in the Fov. Easy find.	
5.9 - 12.1	463	20 19 36	+47 53 39		
SAO 49477 HIP 100219 HD 19368		C7 - C9 (Npe)			
88	Cyg	Date 11/9/23	Time 7:50 pm	not much color. Very light pink.	
V Cyg		See/Transp	Inst/Power 212x	Very hard to find. Had to Star hup	
7.7 - 13.9	421	20 41 18	+48 08 28	in the Eyepiece. ft.	
AO 49940 HIP 102082 TYC 3578-3282		C5 - C7 (Npe)			

Carbon Star Log				Location:	Name:
Star Name		Data		Notes	Sketch
89	Cyg	Date 11/9/23	Time 8:01 pm	Yellowish/red. Slightly better than the	
CY Cyg		See/Transp	Inst/Power 212X	FOV #5.	
7.9 - 8.4	?	20 46 50	+46 03 06		
SAO 50053 HD 198164		CS (M2p)			
90	Del	Date 11/9/23	Time 8:27	Sim mag to FOV #5 not much color.	
SAO 106516		See/Transp	Inst/Power 212X	Looks like the rest of the field #5.	
7.9 - 8.1	?	20 48 36	+17 50 23	Star hup in eye piece. Does not	
GSC 1651: 1359 HIP 102706 HD 198269		C1 (R0)		Stand out well.	
91	Vul	Date 11/9/23	Time 8:46 pm	Just about as bright as brightest FOV #5	
NSV 13571		See/Transp	Inst/Power 212X	Not much color detected.	
8.1 - 8.2	?	21 09 59	+26 36 54	Doesn't stand out well.	
SAO 89499 HIP 104486 HD 201624		C1 (Kp)			
92	Cep	Date 11/9/23	Time 8:59 pm	Finally, a bright yellow/bringe color.	
S Cep		See/Transp	Inst/Power 212X	Best in FOV. Stands out well.	
7.4 - 12.9	487	21 35 12	+78 37 28	Very Nice.	
SAO 10100 HIP 106583 HD 206362		C7 (N8e)			
93	Cyg	Date 11/9/23	Time 9:22 pm	But yellowish/copper. Best in FOV	
V460 Cyg		See/Transp	Inst/Power 212X	Very Nice. B* in FOV. Stood out well.	
5.6 - 7.0	180	21 42 01	+35 30 36		
SAO 71613 HIP 107129 HD 206570		C6 (N1)			
94	Cyg	Date 11/9/23	Time 9:30 pm	But yellowish/reddish. Stands out well in FOV.	
RV Cyg		See/Transp	Inst/Power 212X	Not the brightest in FOV.	
7.1 - 9.3	263	21 43 16	+38 01 02		
SAO 71642 HIP 107242 HD 206751		C6 (N5)			
95	Per	Date 11/9/23	Time 10:32 pm	Yellowish/red. Stands out well in FOV	
RX Peg		See/Transp	Inst/Power 212X		
7.7 - 9.5	629	21 56 22	+22 51 39		
HD 208526		C4 (N3)			
96	Per	Date 11/9/23	Time 10:44 pm	Faint Slightly pinkish tint. Next to star.	
RZ Peg		See/Transp	Inst/Power 212X	Star hup in eye piece. Better X's in FOV.	
7.6 - 13.6	439	22 05 52	+33 30 24		
GSC 2724-1872 HIP 109189 HD 209890		C9 (Ne)			

Carbon Star Log			Location:		Name:
Star Name		Data		Notes	Sketch
97	Aqu	Date 11/11/23	Time 6:48 pm	Like blinking planetary. Look away then get brighter and larger. Light pinkish.	
RU Aqu		See/Transp	Inst/Power 212x	Just as bright as other field of view #'s	
8.5 - 10.1	69	23 24 24	-17 19 08		
AO 165676 HIP 115553 HD 22051			C6 (M5e)		
98	And	Date 11/11/23	Time 7:03 pm	Slight pinkish color. Sun brightness to FOV	
ST And		See/Transp	Inst/Power 212x	Brighter #'s.	
7.7 - 11.8	328	23 38 45	+35 46 21		
SC 2778: 765 HIP 116681 HD 2222			C4 - C6 (R3e)		
99	Psc	Date 11/11/23	Time 7:15 pm	Best yellow/orange/copper.	
TX Psc		See/Transp	Inst/Power 212x	Bestest * in FOV. Not many * in FOV	
4.8 - 5.2	Irr.	23 46 23	+03 29 12		
AO 128374 HIP 117245 HD 22307			C7 (N0)		
100	Psc	Date 11/11/23	Time 7:26 pm	Yellow/pinkish. Best object in FOV	
SAO 128396		See/Transp	Inst/Power 212x	Has the planetary-blinking effect.	
8.5 - 8.8	?	23 49 05	+06 22 56		
SC 592: 649 HIP 117467 HD 22339			C3 (R3)		