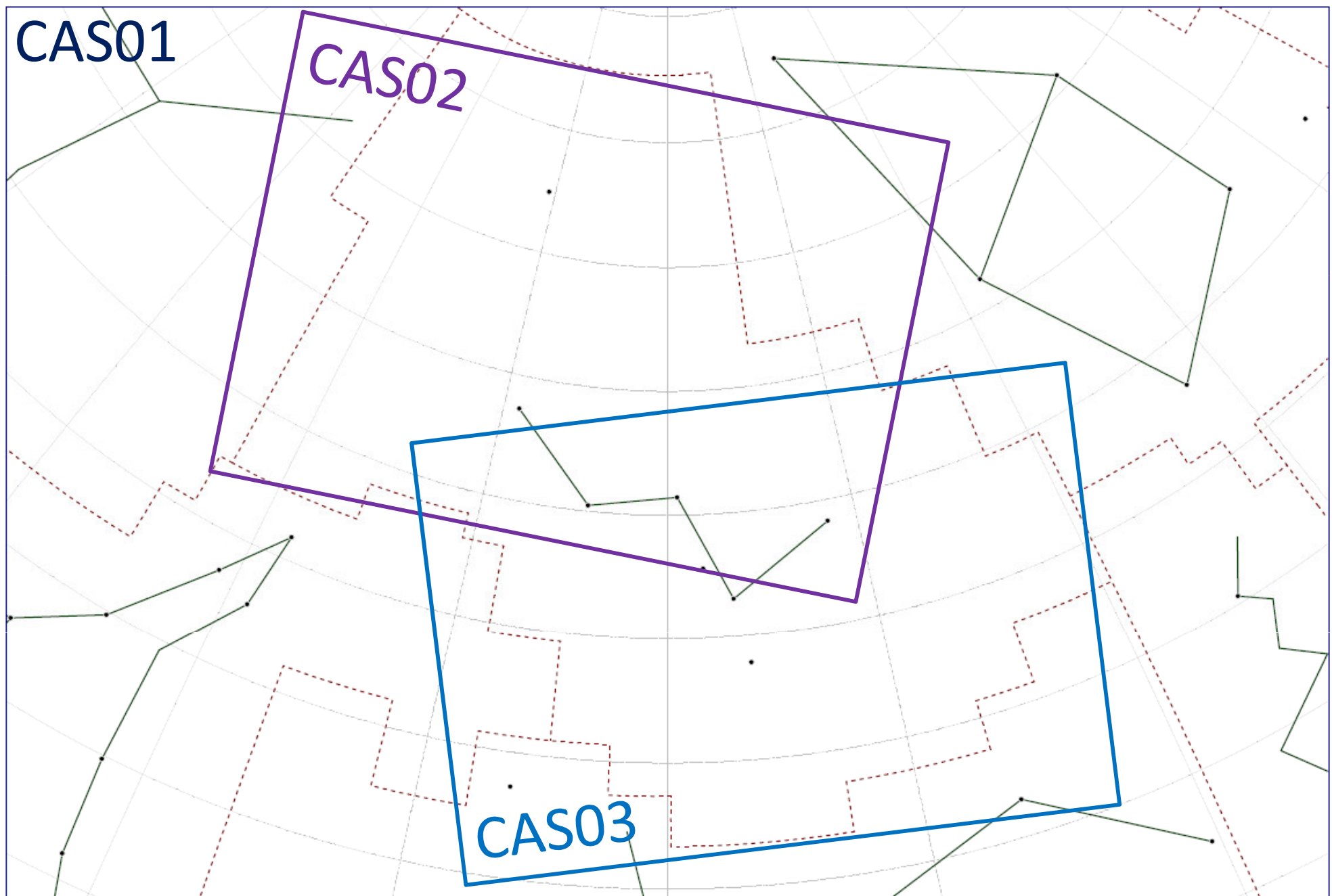
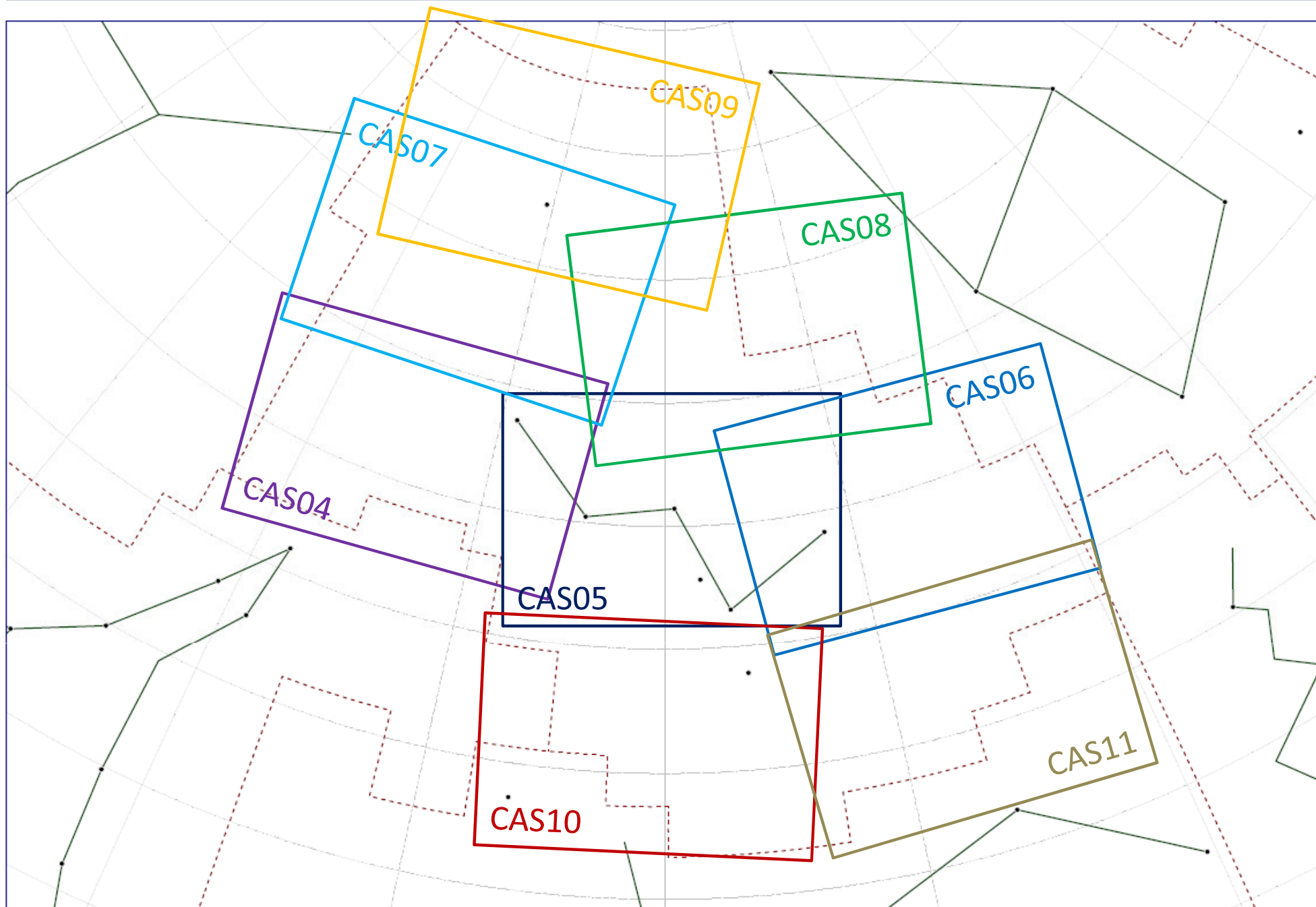
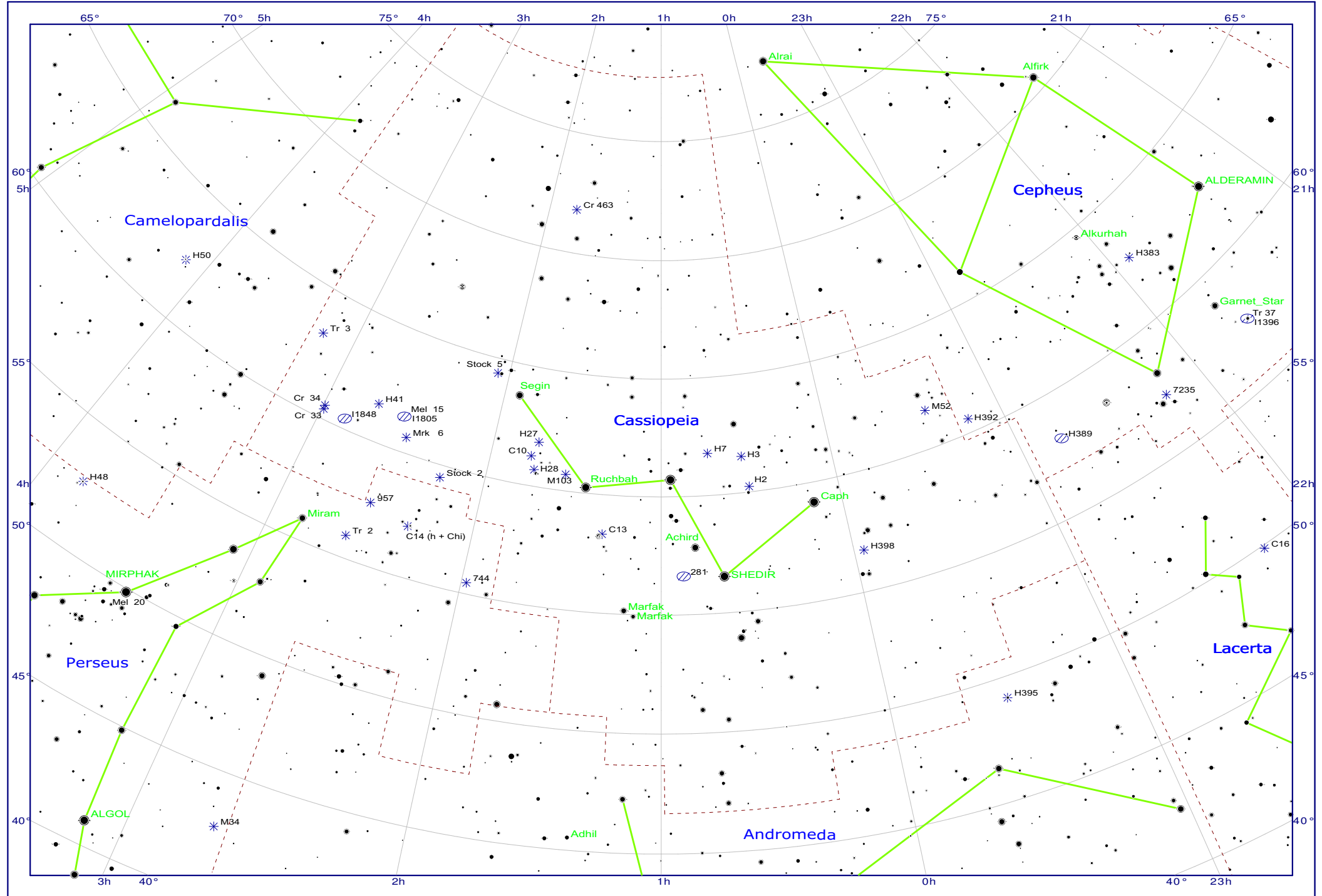
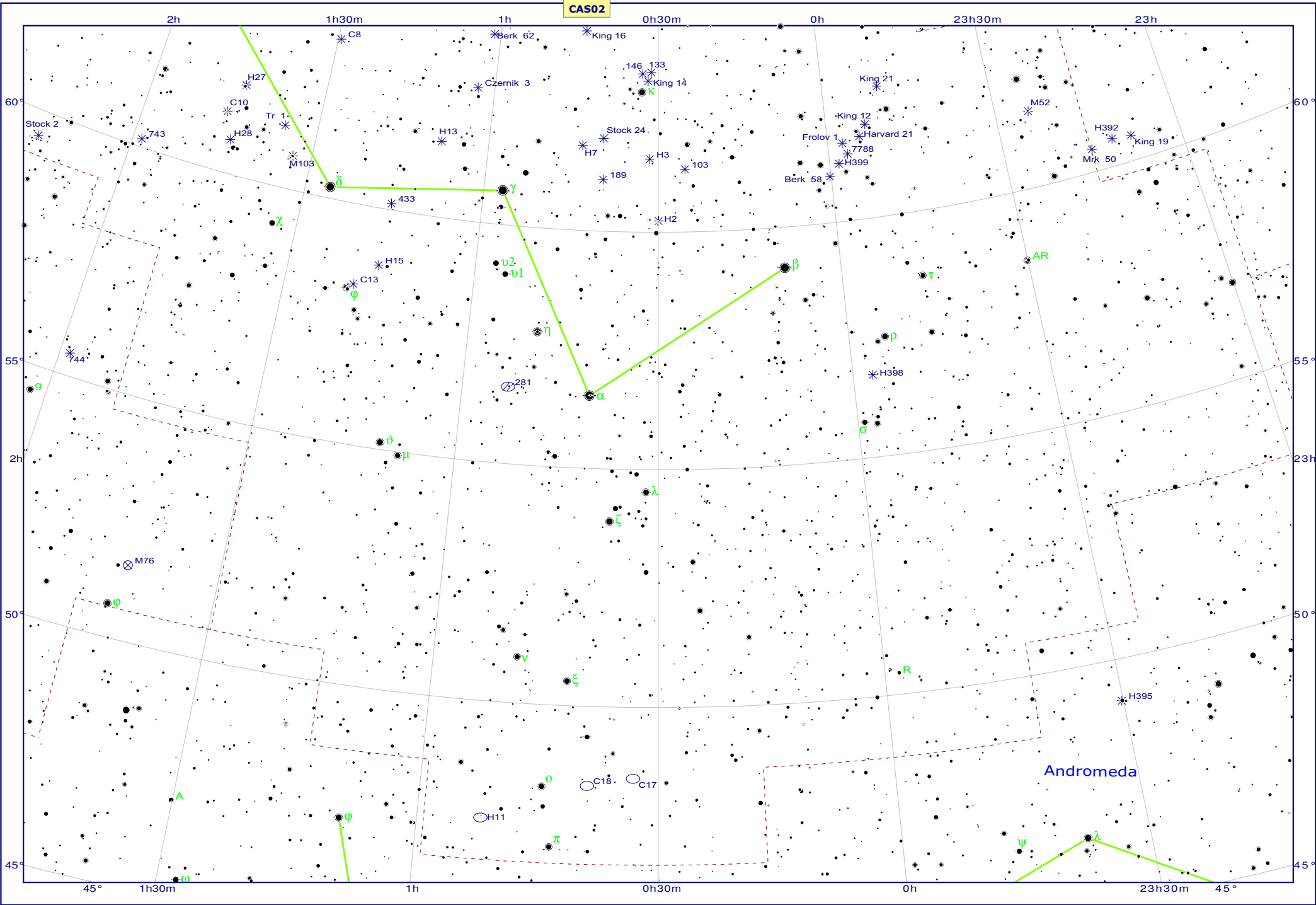








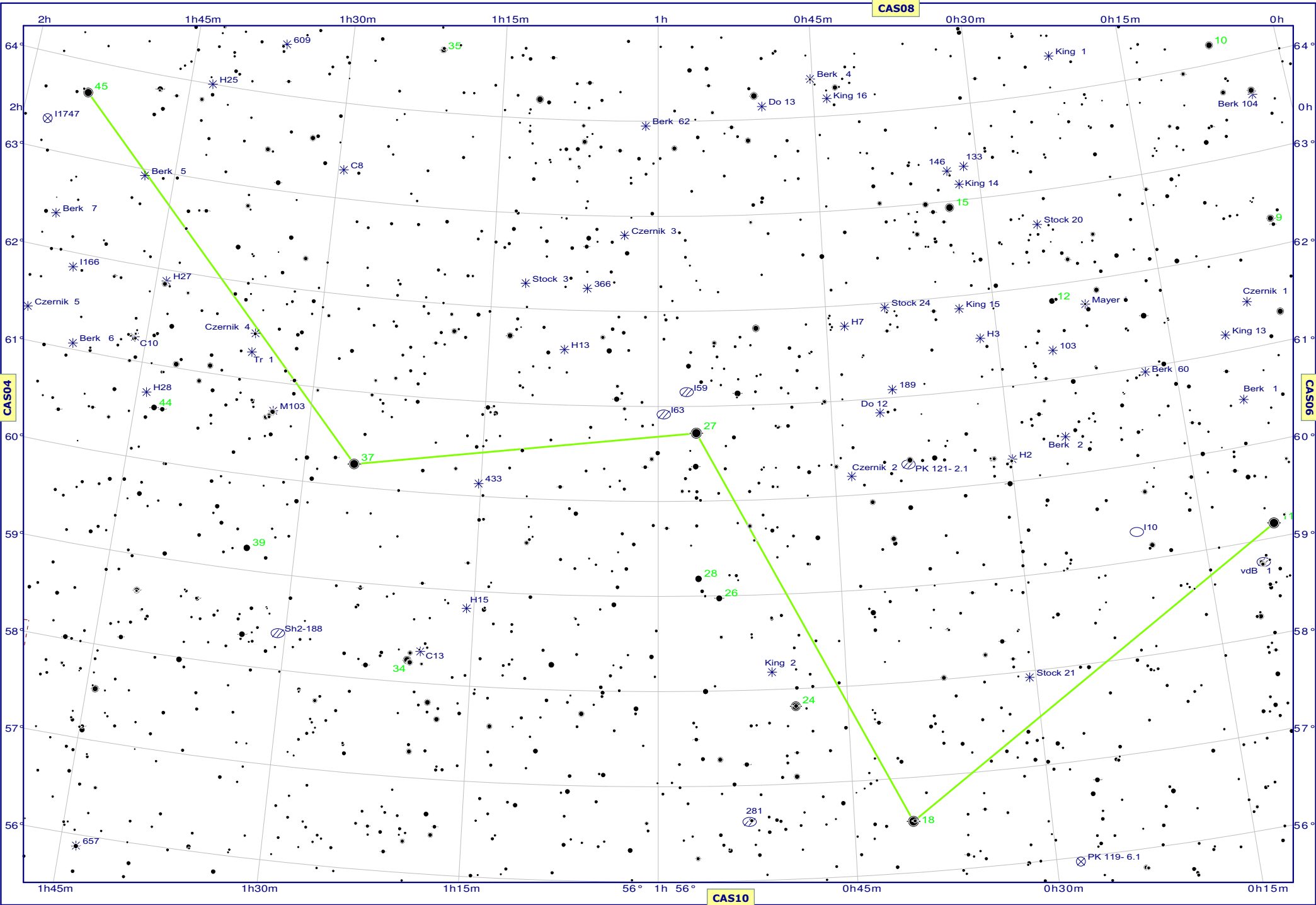
[illegible]



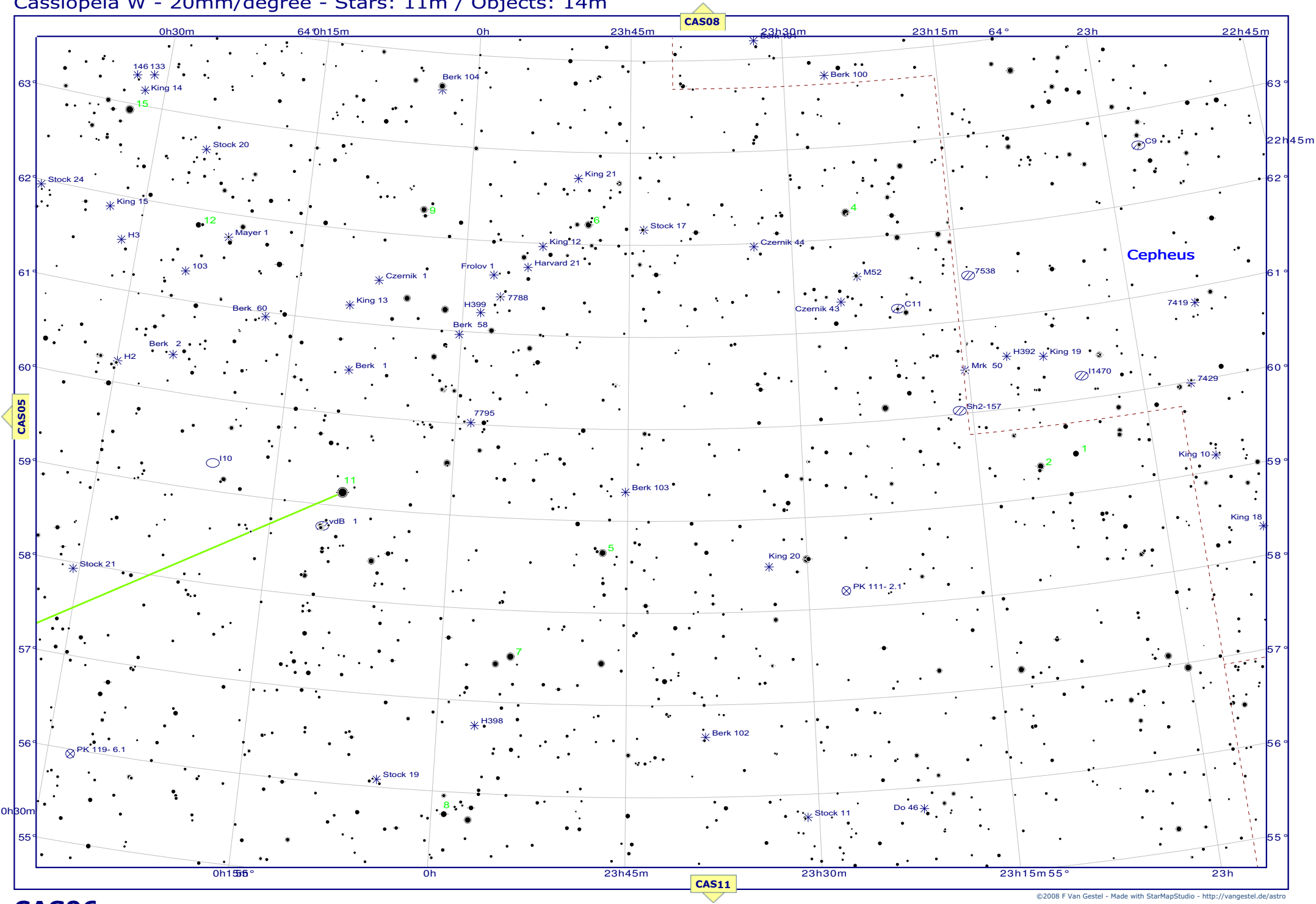
This is a detailed astronomical map of the Perseus constellation, showing stars, deep sky objects, and a coordinate grid. The map includes labels for various stars like Tr 3, Czernik 13, Berk 64, and H25, as well as deep sky objects like I1289, I1871, and I1848. A red dashed line outlines the constellation's boundary, and a green line connects stars 45 and 39. The map is titled 'Perseus' in the center.

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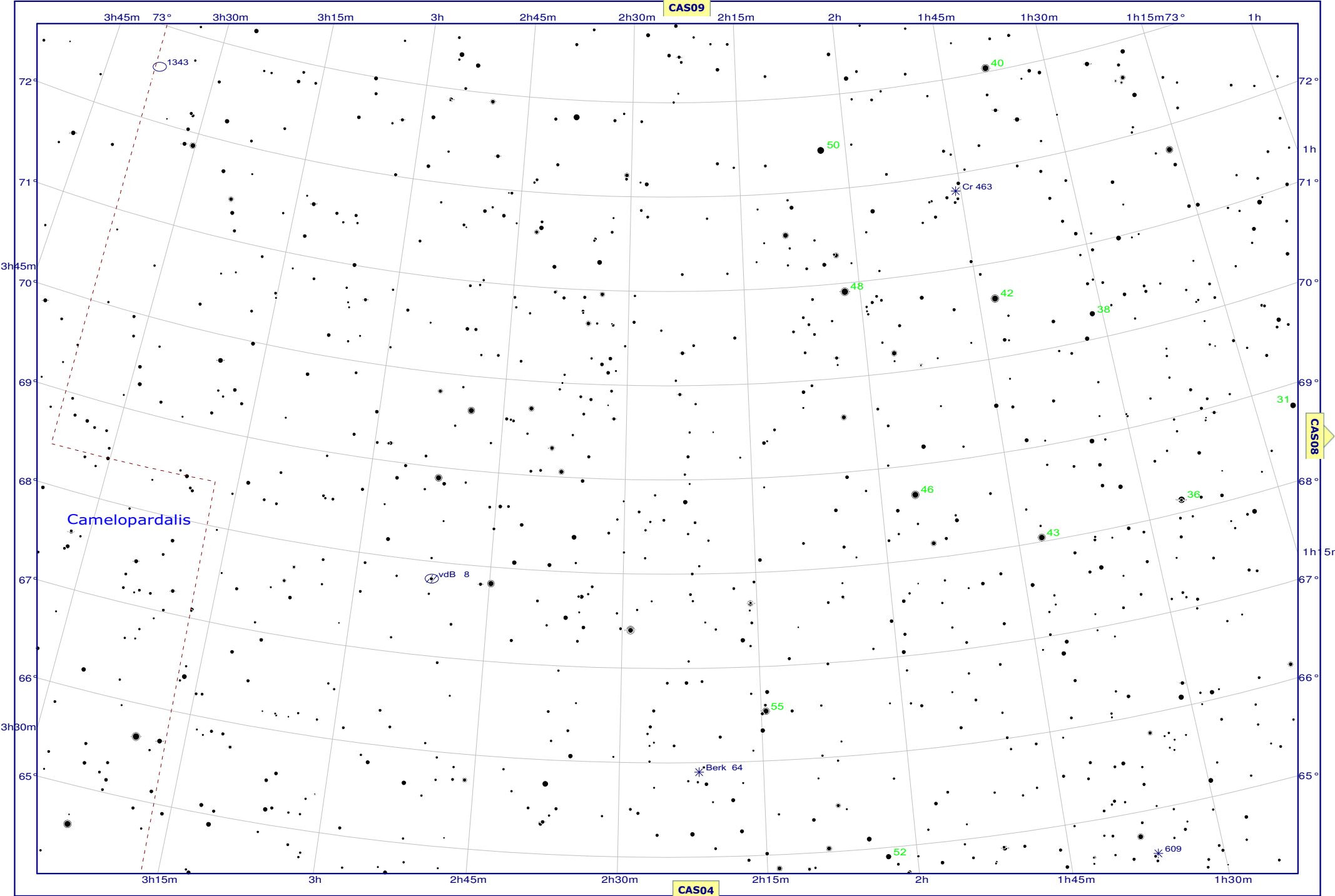
Cassiopeia centre - 20mm/degree - Stars:11m / Objects:14m



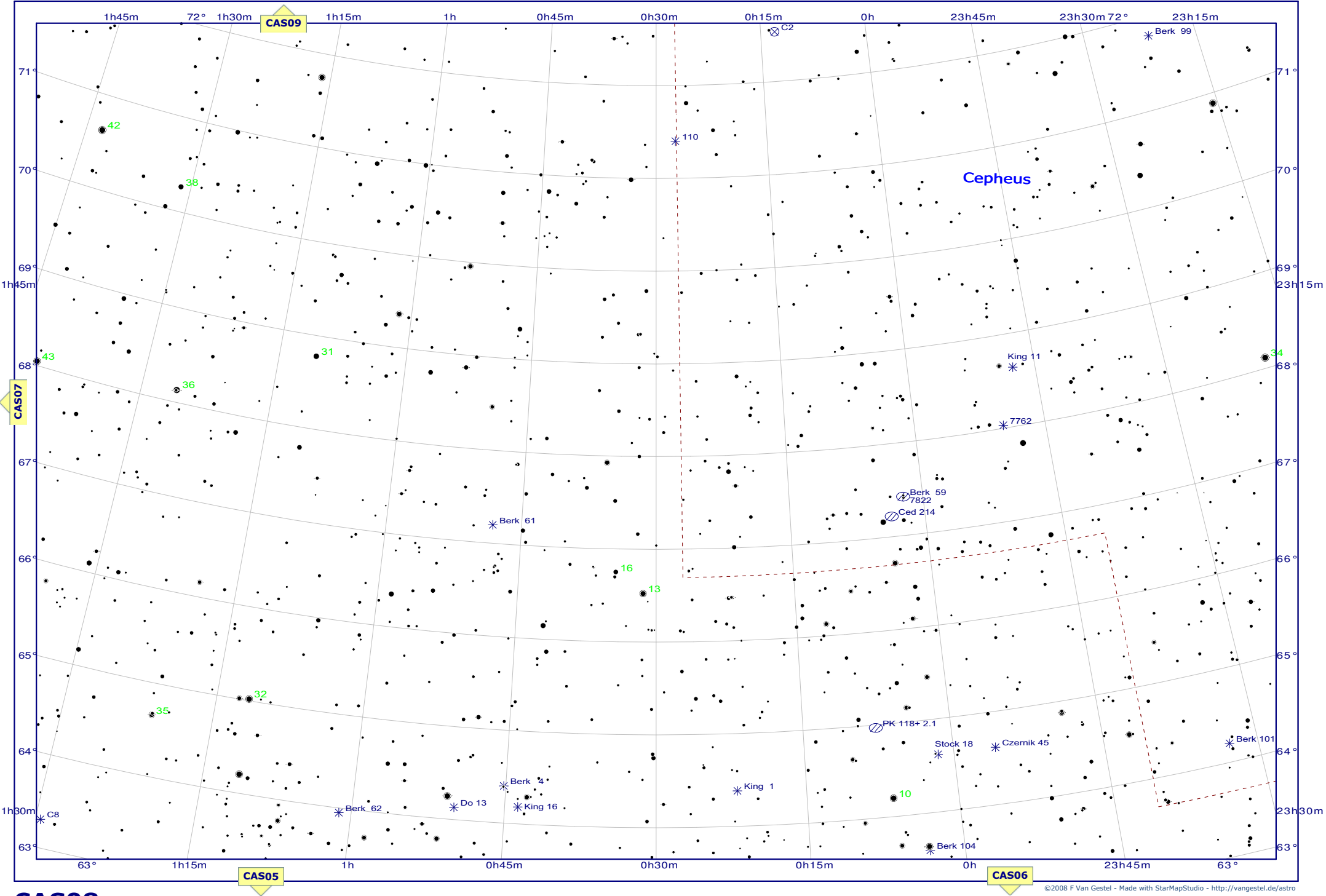
Cassiopeia W - 20mm/degree - Stars: 11m / Objects: 14m

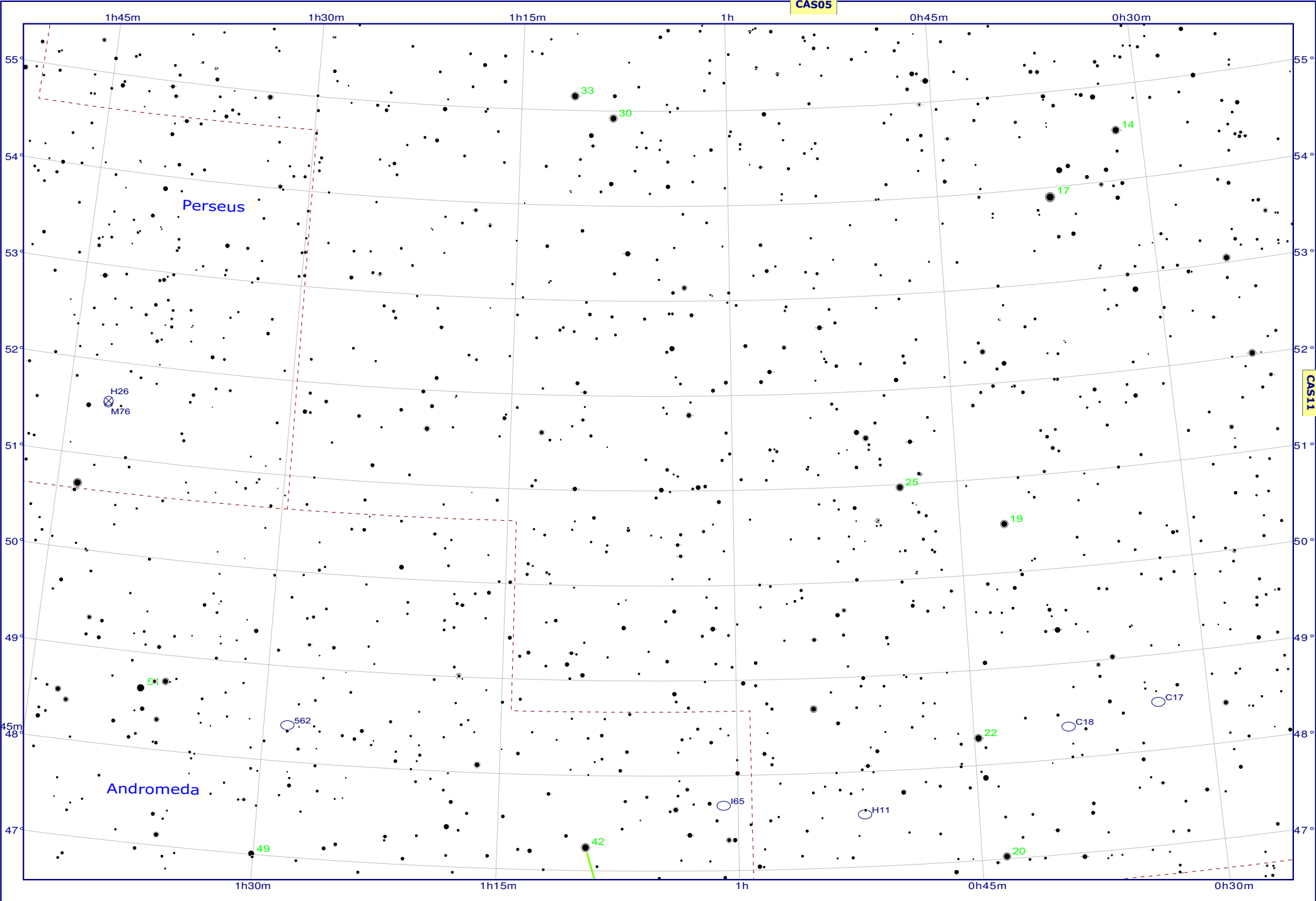


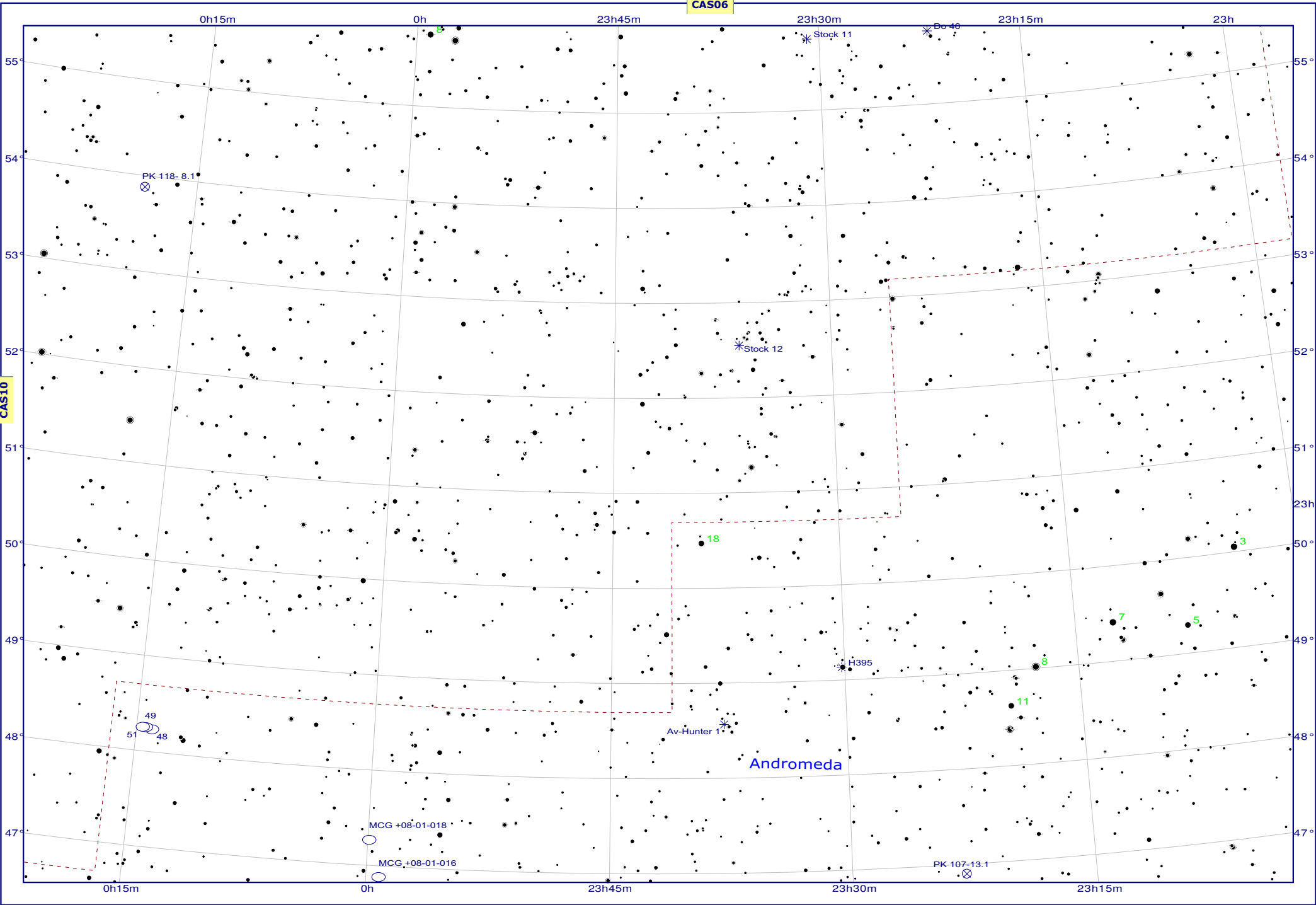
CAS06



Cassiopeia NW - 20mm/degree - Stars:11m / Objects:14m







Object list											
Name	Type	Const	Page(s)	VMag	RA	DEC	Messier	Caldwell	Herschel	NGC	IC
Av-Hunter 1	O	AND	CAS11	-----	23h 37.8m	+48° 34'	-	-	-	-	-
Basel 10	O	PER	CAS04	9.90	2h 19.5m	+58° 19'	-	-	-	-	-
Berk 1	O	CAS	CAS05 CAS06	-----	0h 9.7m	+60° 29'	-	-	-	-	-
Berk 2	O	CAS	CAS05 CAS06	-----	0h 25.2m	+60° 24'	-	-	-	-	-
Berk 4	O	CAS	CAS02 CAS05 CAS09	10.60	0h 45.2m	+64° 24'	-	-	-	-	-
Berk 5	O	CAS	CAS04 CAS05	-----	1h 47.7m	+62° 56'	-	-	-	-	-
Berk 6	O	CAS	CAS04 CAS05	-----	1h 51.2m	+61° 4'	-	-	-	-	-
Berk 7	O	CAS	CAS04 CAS05	-----	1h 55.0m	+62° 22'	-	-	-	-	-
Berk 8	O	CAS	CAS09	-----	2h 2.0m	+75° 30'	-	-	-	-	-
Berk 58	O	CAS	CAS02 CAS03 CAS06	9.70	0h 0.2m	+60° 58'	-	-	-	-	-
Berk 59	O	CEP	CAS02 CAS09	11.00	0h 2.2m	+67° 25'	-	-	-	-	-
Berk 60	O	CAS	CAS05 CAS06	-----	0h 17.6m	+60° 57'	-	-	-	-	-
Berk 61	O	CAS	CAS09	-----	0h 48.2m	+67° 12'	-	-	-	-	-
Berk 62	O	CAS	CAS02 CAS03 CAS05 CAS09	9.30	1h 1.2m	+63° 57'	-	-	-	-	-
Berk 63	O	CAS	CAS04	-----	2h 19.5m	+63° 43'	-	-	-	-	-
Berk 64	O	CAS	CAS04 CAS07	-----	2h 21.7m	+65° 54'	-	-	-	-	-
Berk 65	O	CAS	CAS02 CAS04	10.20	2h 39.0m	+60° 24'	-	-	-	-	-
Berk 66	O	CAS	CAS04	-----	3h 4.1m	+58° 46'	-	-	-	-	-
Berk 99	O	CEP	CAS09	-----	23h 21.3m	+71° 47'	-	-	-	-	-
Berk 100	O	CEP	CAS06	-----	23h 26.0m	+63° 47'	-	-	-	-	-
Berk 101	O	CEP	CAS06 CAS09	-----	23h 32.8m	+64° 12'	-	-	-	-	-
Berk 102	O	CAS	CAS06	-----	23h 38.7m	+56° 39'	-	-	-	-	-
Berk 103	O	CAS	CAS06	-----	23h 45.2m	+59° 19'	-	-	-	-	-
Berk 104	O	CAS	CAS05 CAS06 CAS09	-----	0h 3.4m	+63° 36'	-	-	-	-	-
C2	P	CEP	CAS09	12.40	0h 13.0m	+72° 32'	-	2	1	40	-
C5	S	CAM	CAS02	9.20	3h 46.8m	+68° 6'	-	5	-	-	342
C8	O	CAS	CAS02 CAS03 CAS04 CAS05 CAS09	9.50	1h 29.5m	+63° 18'	-	8	19	559	-
C9	N	CEP	CAS06	-----	22h 56.8m	+62° 37'	-	9	-	-	-
C10	O	CAS	CAS01 CAS02 CAS03 CAS04 CAS05	7.10	1h 46.0m	+61° 15'	-	10	29	663	-
C11	N	CAS	CAS06	-----	23h 20.7m	+61° 12'	-	11	-	7635	-
C13	O	CAS	CAS01 CAS03 CAS05	6.40	1h 19.1m	+58° 20'	-	13	16	457	-
C14 (h + Chi)	O	PER	CAS01	4.30	2h 20.0m	+57° 8'	-	14	34	869/884	-
C16	O	LAC	CAS01	6.40	22h 15.3m	+49° 53'	-	16	386	7243	-
C17	E	CAS	CAS03 CAS10	9.30	0h 33.2m	+48° 30'	-	17	-	147	-
C18	E	CAS	CAS03 CAS10	9.20	0h 39.0m	+48° 20'	-	18	5	185	-
Ced 214	N	CEP	CAS09	-----	0h 3.7m	+67° 13'	-	-	-	-	-
Cr 33	O	CAS	CAS01 CAS02 CAS04	5.90	2h 59.3m	+60° 24'	-	-	-	-	-
Cr 34	O	CAS	CAS01 CAS02 CAS04	6.80	2h 59.4m	+60° 34'	-	-	-	-	-
Cr 463	O	CAS	CAS01 CAS02 CAS07 CAS09	5.70	1h 45.7m	+71° 49'	-	-	-	-	-
Czernik 1	O	CAS	CAS05 CAS06	-----	0h 7.8m	+61° 29'	-	-	-	-	-
Czernik 2	O	CAS	CAS05	-----	0h 43.6m	+60° 12'	-	-	-	-	-
Czernik 3	O	CAS	CAS02 CAS03 CAS05	9.90	1h 3.1m	+62° 48'	-	-	-	-	-
Czernik 4	O	CAS	CAS04 CAS05	-----	1h 35.6m	+61° 29'	-	-	-	-	-
Czernik 5	O	CAS	CAS04 CAS05	-----	1h 55.7m	+61° 21'	-	-	-	-	-
Czernik 6	O	CAS	CAS04	-----	2h 2.0m	+62° 51'	-	-	-	-	-
Czernik 7	O	CAS	CAS04	-----	2h 3.0m	+62° 15'	-	-	-	-	-
Czernik 8	O	PER	CAS02 CAS04	9.70	2h 33.0m	+58° 46'	-	-	-	-	-

Czernik 9	O	CAS	CAS04	-----	2h 33.6m	+59° 53'	-	-	-	-	-
Czernik 10	O	CAS	CAS04	-----	2h 34.0m	+60° 11'	-	-	-	-	-
Czernik 11	O	CAS	CAS04	-----	2h 36.6m	+59° 39'	-	-	-	-	-
Czernik 13	O	CAS	CAS02 CAS04	10.40	2h 44.7m	+62° 20'	-	-	-	-	-
Czernik 43	O	CAS	CAS06	-----	23h 25.8m	+61° 19'	-	-	-	-	-
Czernik 44	O	CAS	CAS06	-----	23h 33.5m	+61° 58'	-	-	-	-	-
Czernik 45	O	CAS	CAS09	-----	23h 55.8m	+64° 37'	-	-	-	-	-
Do 12	O	CAS	CAS05	-----	0h 40.8m	+60° 51'	-	-	-	-	-
Do 13	O	CAS	CAS05 CAS09	-----	0h 50.0m	+64° 8'	-	-	-	-	-
Do 46	O	CAS	CAS06 CAS11	-----	23h 21.9m	+55° 46'	-	-	-	-	-
Frolov 1	O	CAS	CAS02 CAS03 CAS06	9.20	23h 57.4m	+61° 38'	-	-	-	-	-
H2	O	CAS	CAS01 CAS02 CAS03 CAS05 CAS06	6.50	0h 29.9m	+60° 14'	-	-	2	129	-
H3	O	CAS	CAS01 CAS02 CAS03 CAS05 CAS06	0.00	0h 31.5m	+61° 32'	-	-	3	136	-
H7	O	CAS	CAS01 CAS02 CAS03 CAS05	7.00	0h 43.4m	+61° 47'	-	-	7	225	-
H11	X	CAS	CAS03 CAS10	10.90	0h 52.1m	+47° 33'	-	-	11	278	-
H13	O	CAS	CAS02 CAS03 CAS05	9.00	1h 8.3m	+61° 35'	-	-	13	381	-
H15	O	CAS	CAS03 CAS05	8.80	1h 15.6m	+58° 49'	-	-	15	436	-
H25	O	CAS	CAS02 CAS04 CAS05	8.20	1h 42.9m	+64° 0'	-	-	25	637	-
H26	P	PER	CAS10	12.00	1h 42.3m	+51° 35'	-	-	26	651	-
H27	O	CAS	CAS01 CAS02 CAS03 CAS04 CAS05	6.50	1h 44.1m	+61° 53'	-	-	27	654	-
H28	O	CAS	CAS01 CAS02 CAS03 CAS04 CAS05	7.90	1h 44.2m	+60° 42'	-	-	28	659	-
H41	O	CAS	CAS01 CAS02 CAS04	6.70	2h 42.7m	+61° 33'	-	-	41	1027	-
H48	O	PER	CAS01	6.60	3h 49.4m	+52° 40'	-	-	48	1444	-
H50	O	CAM	CAS01	5.70	4h 7.7m	+62° 20'	-	-	50	1502	-
H383	O	CEP	CAS01	6.10	21h 53.7m	+62° 36'	-	-	383	7160	-
H389	N	CEP	CAS01	7.20	22h 47.0m	+58° 6'	-	-	389	7380	-
H392	O	CEP	CAS01 CAS03 CAS06	7.90	23h 11.5m	+60° 34'	-	-	392	7510	-
H395	O	AND	CAS01 CAS03 CAS11	5.60	23h 30.2m	+49° 8'	-	-	395	7686	-
H398	O	CAS	CAS01 CAS03 CAS06	6.70	23h 57.0m	+56° 44'	-	-	398	7789	-
H399	O	CAS	CAS02 CAS03 CAS06	8.50	23h 58.4m	+61° 13'	-	-	399	7790	-
Harvard 21	O	CAS	CAS02 CAS03 CAS06	9.00	23h 54.3m	+61° 44'	-	-	-	-	-
I10	X	CAS	CAS05 CAS06	13.30	0h 20.4m	+59° 18'	-	-	-	-	10
I59	N	CAS	CAS05	-----	0h 57.5m	+61° 9'	-	-	-	-	59
I63	N	CAS	CAS05	-----	0h 59.5m	+60° 55'	-	-	-	-	63
I65	X	AND	CAS10	12.80	1h 0.9m	+47° 41'	-	-	-	-	65
I166	O	CAS	CAS04 CAS05	11.70	1h 52.5m	+61° 51'	-	-	-	-	166
I289	P	CAS	CAS04	12.00	3h 10.3m	+61° 19'	-	-	-	-	289
I334	X	CAM	CAS09	12.30	3h 45.3m	+76° 38'	-	-	-	-	334
I356	X	CAM	CAS02	10.50	4h 7.8m	+69° 49'	-	-	-	-	356
I1396	N	CEP	CAS01	3.50	21h 39.1m	+57° 30'	-	-	-	-	1396
I1470	N	CEP	CAS06	-----	23h 5.2m	+60° 15'	-	-	-	-	1470
I1747	P	CAS	CAS04 CAS05	12.00	1h 57.6m	+63° 19'	-	-	-	-	1747
I1795	N	CAS	CAS04	-----	2h 25.8m	+61° 59'	-	-	-	-	1795
I1805	N	CAS	CAS01 CAS02 CAS04	6.50	2h 32.7m	+61° 27'	-	-	-	-	1805
I1848	N	CAS	CAS01 CAS02 CAS04	6.50	2h 51.4m	+60° 25'	-	-	-	-	1848
I1871	N	CAS	CAS04	-----	3h 3.2m	+60° 28'	-	-	-	-	1871
King 1	O	CAS	CAS05 CAS09	-----	0h 21.9m	+64° 23'	-	-	-	-	-
King 2	O	CAS	CAS05	-----	0h 50.9m	+58° 11'	-	-	-	-	-
King 4	O	CAS	CAS02 CAS04	10.50	2h 35.0m	+59° 1'	-	-	-	-	-
King 10	O	CEP	CAS06	-----	22h 54.9m	+59° 10'	-	-	-	-	-
King 11	O	CEP	CAS09	-----	23h 47.6m	+68° 38'	-	-	-	-	-

King 12	O	CAS	CAS02 CAS03 CAS06	10.00	23h 53.0m	+61° 58'	-	-	-	-	-
King 13	O	CAS	CAS05 CAS06	-----	0h 10.2m	+61° 11'	-	-	-	-	-
King 14	O	CAS	CAS02 CAS03 CAS05 CAS06	8.50	0h 31.9m	+63° 10'	-	-	-	-	-
King 15	O	CAS	CAS05 CAS06	-----	0h 33.1m	+61° 52'	-	-	-	-	-
King 16	O	CAS	CAS02 CAS03 CAS05 CAS09	10.30	0h 43.7m	+64° 11'	-	-	-	-	-
King 18	O	CEP	CAS06	-----	22h 52.1m	+58° 19'	-	-	-	-	-
King 19	O	CEP	CAS03 CAS06	9.20	23h 8.3m	+60° 31'	-	-	-	-	-
King 20	O	CAS	CAS06	-----	23h 33.2m	+58° 29'	-	-	-	-	-
King 21	O	CAS	CAS02 CAS03 CAS06	9.80	23h 49.9m	+62° 43'	-	-	-	-	-
M34	O	PER	CAS01	5.50	2h 42.0m	+42° 47'	34	-	-	1039	-
M52	O	CAS	CAS01 CAS03 CAS06	7.30	23h 24.2m	+61° 35'	52	-	-	7654	-
M76	P	PER	CAS03 CAS10	10.10	1h 42.3m	+51° 34'	76	-	-	650	-
M103	O	CAS	CAS01 CAS02 CAS03 CAS04 CAS05	7.40	1h 33.2m	+60° 42'	103	-	-	581	-
Maffei 1	X	CAS	CAS04	11.40	2h 36.3m	+59° 39'	-	-	-	-	-
Mayer 1	O	CAS	CAS05 CAS06	-----	0h 21.9m	+61° 45'	-	-	-	-	-
MCG +08-01-016	X	AND	CAS11	12.00	23h 59.2m	+46° 53'	-	-	-	-	-
MCG +08-01-018	X	AND	CAS11	12.00	23h 59.9m	+47° 16'	-	-	-	-	-
Mel 15	O	CAS	CAS01 CAS02 CAS04	6.60	2h 32.6m	+61° 27'	-	-	-	-	-
Mel 20	O	PER	CAS01	1.20	3h 24.3m	+49° 52'	-	-	-	-	-
Mrk 6	O	CAS	CAS01 CAS02 CAS04	7.10	2h 29.6m	+60° 39'	-	-	-	-	-
Mrk 50	O	CEP	CAS03 CAS06	8.50	23h 15.3m	+60° 28'	-	-	-	-	-
N48	X	AND	CAS11	13.60	0h 14.0m	+48° 14'	-	-	-	48	-
N49	X	AND	CAS11	13.70	0h 14.4m	+48° 15'	-	-	-	49	-
N51	X	AND	CAS11	13.10	0h 14.6m	+48° 15'	-	-	-	51	-
N103	O	CAS	CAS02 CAS03 CAS05 CAS06	9.80	0h 25.3m	+61° 19'	-	-	-	103	-
N110	O	CAS	CAS09	-----	0h 27.4m	+71° 24'	-	-	-	110	-
N133	O	CAS	CAS02 CAS03 CAS05 CAS06	9.40	0h 31.3m	+63° 21'	-	-	-	133	-
N146	O	CAS	CAS02 CAS03 CAS05 CAS06	9.10	0h 32.9m	+63° 19'	-	-	-	146	-
N189	O	CAS	CAS02 CAS03 CAS05	8.80	0h 39.6m	+61° 5'	-	-	-	189	-
N281	N	CAS	CAS01 CAS03 CAS05	7.40	0h 53.0m	+56° 37'	-	-	-	281	-
N366	O	CAS	CAS05	12.00	1h 6.4m	+62° 14'	-	-	-	366	-
N433	O	CAS	CAS02 CAS03 CAS05	9.00	1h 15.2m	+60° 8'	-	-	-	433	-
N562	X	AND	CAS10	13.30	1h 28.5m	+48° 23'	-	-	-	562	-
N609	O	CAS	CAS02 CAS04 CAS05 CAS07	11.00	1h 36.4m	+64° 32'	-	-	-	609	-
N657	O	CAS	CAS05	-----	1h 43.8m	+55° 53'	-	-	-	657	-
N743	O	CAS	CAS02 CAS03 CAS04	9.50	1h 58.5m	+60° 10'	-	-	-	743	-
N744	O	PER	CAS01 CAS03	7.90	1h 58.5m	+55° 28'	-	-	-	744	-
N886	O	CAS	CAS04	-----	2h 23.5m	+63° 47'	-	-	-	886	-
N896	N	CAS	CAS04	-----	2h 25.5m	+62° 1'	-	-	-	896	-
N957	O	PER	CAS01 CAS04	7.60	2h 33.3m	+57° 34'	-	-	-	957	-
N1343	X	CAS	CAS07	12.70	3h 37.8m	+72° 34'	-	-	-	1343	-
N7235	O	CEP	CAS01	7.70	22h 12.6m	+57° 17'	-	-	-	7235	-
N7419	O	CEP	CAS06	13.00	22h 54.3m	+60° 50'	-	-	-	7419	-
N7429	O	CEP	CAS06	-----	22h 55.9m	+59° 59'	-	-	-	7429	-
N7538	N	CEP	CAS06	-----	23h 14.1m	+61° 29'	-	-	-	7538	-
N7762	O	CEP	CAS02 CAS09	10.00	23h 49.8m	+68° 2'	-	-	-	7762	-
N7788	O	CAS	CAS02 CAS03 CAS06	9.40	23h 56.7m	+61° 24'	-	-	-	7788	-
N7795	O	CAS	CAS06	12.00	23h 58.7m	+60° 1'	-	-	-	7795	-
N7822	N	CEP	CAS09	-----	0h 2.2m	+67° 25'	-	-	-	7822	-
PK 107-13.1	P	AND	CAS11	13.90	23h 23.0m	+46° 54'	-	-	-	-	-
PK 111- 2.1	P	CAS	CAS06	14.00	23h 26.9m	+58° 11'	-	-	-	-	-
PK 118+ 2.1	N	CAM	CAS09	12.90	0h 7.6m	+64° 58'	-	-	-	-	-
PK 118- 8.1	P	CAS	CAS11	12.50	0h 18.7m	+53° 53'	-	-	-	-	-

PK 119- 6.1	P	CAS	CAS05 CAS06	13.30	0h 28.2m	+55° 57'	-	-	-	-	-
PK 121- 2.1	N	CAS	CAS05	-----	0h 38.7m	+60° 17'	-	-	-	-	-
Sh2-157	N	CAS	CAS06	-----	23h 16.1m	+60° 2'	-	-	-	-	-
Sh2-188	N	CAS	CAS05	-----	1h 30.6m	+58° 23'	-	-	-	-	-
Stock 2	O	CAS	CAS01 CAS02 CAS03 CAS04	4.40	2h 14.7m	+59° 29'	-	-	-	-	-
Stock 3	O	CAS	CAS05	-----	1h 12.0m	+62° 16'	-	-	-	-	-
Stock 4	O	PER	CAS04	-----	1h 52.8m	+57° 4'	-	-	-	-	-
Stock 5	O	CAS	CAS01 CAS02 CAS04	7.00	2h 4.5m	+64° 23'	-	-	-	-	-
Stock 11	O	CAS	CAS06 CAS11	-----	23h 30.9m	+55° 45'	-	-	-	-	-
Stock 12	O	CAS	CAS11	-----	23h 36.4m	+52° 33'	-	-	-	-	-
Stock 17	O	CAS	CAS06	-----	23h 43.7m	+62° 10'	-	-	-	-	-
Stock 18	O	CAS	CAS09	-----	0h 1.6m	+64° 37'	-	-	-	-	-
Stock 19	O	CAS	CAS06	-----	0h 4.4m	+56° 5'	-	-	-	-	-
Stock 20	O	CAS	CAS05 CAS06	-----	0h 25.2m	+62° 39'	-	-	-	-	-
Stock 21	O	CAS	CAS05 CAS06	-----	0h 30.5m	+57° 56'	-	-	-	-	-
Stock 23	O	CAM	CAS04	-----	3h 16.2m	+60° 6'	-	-	-	-	-
Stock 24	O	CAS	CAS02 CAS03 CAS05 CAS06	8.80	0h 39.7m	+61° 57'	-	-	-	-	-
Tombaugh 4	O	CAS	CAS04	-----	2h 29.2m	+61° 47'	-	-	-	-	-
Tr 1	O	CAS	CAS02 CAS03 CAS04 CAS05	8.10	1h 35.7m	+61° 17'	-	-	-	-	-
Tr 2	O	PER	CAS01	5.90	2h 36.9m	+55° 55'	-	-	-	-	-
Tr 3	O	CAS	CAS01 CAS02 CAS04	7.00	3h 11.9m	+63° 11'	-	-	-	-	-
Tr 37	O	CEP	CAS01	5.10	21h 39.0m	+57° 30'	-	-	-	-	-
vdB 1	N	CAS	CAS05 CAS06	-----	0h 10.6m	+58° 46'	-	-	-	-	-
vdB 8	N	CAS	CAS07	-----	2h 51.5m	+67° 49'	-	-	-	-	-

175 objects