

Cassiopeia

Sternkarten / Star maps

Astronomische Daten für diese Karten stammen von frei verfügbaren Datenbanken im Internet
Astronomical data for this sky atlas were taken from free database sources on the internet

Objektkataloge / Object databases:

Centre de Données astronomiques de Strasbourg - <http://cdsweb.u-strasbg.fr>

Saguaro Astronomy Club: SAC Database 7.70 - <http://www.saguaroastro.org>

Sternkatalog / Star database:

Star Database: SKY2000 Catalog, Version 4 (Myers+ 2002)

<http://vizier.u-strasbg.fr/viz-bin/VizieR?-source=V/109>

An den Karten haben mitgewirkt / People that have been working on the maps:

Fred Van Gestel (author), Dennis Wallace (PDF and data base editing)

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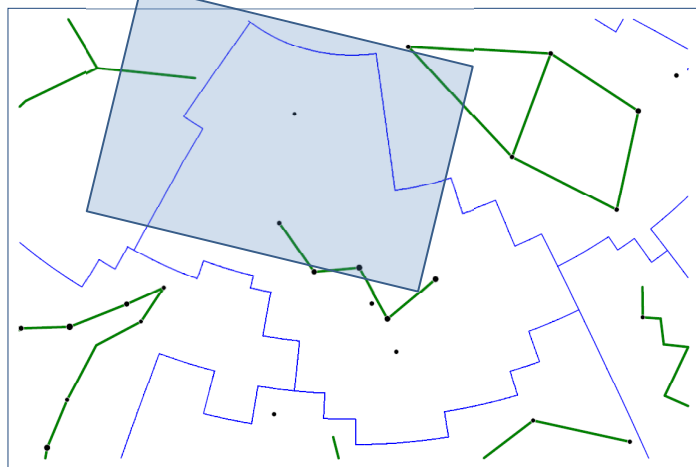


Open clusters											
Object	Const.	Name	Page(s)	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
Berk 4	CAS	Owl cluster	Cas 1-1 Cas 2-1 Cas 2-2	10.60							-
Berk 58	CAS		Cas 2-1 Cas 2-2 Cas 3-1	9.70							-
Berk 62	CAS		Cas 1-1 Cas 2-1 Cas 2-2	9.30							-
Berk 65	CAS		Cas 2-1	10.20							-
C10	CAS		Cas 1-1 Cas 2-1 Cas 2-2	7.10	15'	8x30				9200 Ly	663
C13	CAS		Cas 2-1 Cas 2-2 Cas 3-1	6.40	15'x10'	8x30				8200 Ly	457
C8	CAS		Cas 1-1 Cas 2-1 Cas 2-2	9.50	7'					3721 Ly	559
Cr 33	CAS		Cas 1-1 Cas 2-1	5.90							-
Cr 34	CAS		Cas 1-1 Cas 2-1	6.80							-
Cr 463	CAS		Cas 1-1	5.70							-
Czernik 13	CAS	Cas 1-1 Cas 2-1	10.40							-	
Czernik 3	CAS	Cas 1-1 Cas 2-1 Cas 2-2	9.90							-	
Frolov 1	CAS	Cas 2-1 Cas 2-2 Cas 3-1	9.20							-	
H13	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	9.00	6'						381	
H15	CAS	Cas 2-1 Cas 2-2 Cas 3-1	8.80	6'						436	
H2	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	6.50	15'	10x50				5500 Ly	129	
H25	CAS	Cas 1-1 Cas 2-1 Cas 2-2	8.20	3.5'						637	
H27	CAS	Cas 1-1 Cas 2-1 Cas 2-2	6.50	5'x3'	8x30				9200 Ly	654	
H28	CAS	Cas 2-1 Cas 2-2 Cas 3-1	7.90							659	
H3	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	0.00	1.2'						136	
H398	CAS	Cas 2-2 Cas 3-1	6.70	15'	10x50				5900 Ly	7789	
H399	CAS	Cas 2-1 Cas 2-2 Cas 3-1	8.50	17'						7790	
H41	CAS	Cas 1-1 Cas 2-1	6.70	20'						1027	
H7	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	7.00	12'						225	
Harvard 21	CAS	Cas 2-1 Cas 2-2 Cas 3-1	9.00							-	
I166	CAS	Cas 1-1 Cas 2-1 Cas 2-2	11.70							IC166	
King 12	CAS	Cas 2-1 Cas 2-2 Cas 3-1	10.00							-	
King 14	CAS	Cas 1-1 Cas 2-1 Cas 2-2	8.50							-	
King 16	CAS	Cas 1-1 Cas 2-1 Cas 2-2	10.30							-	
King 21	CAS	Cas 2-1 Cas 2-2	9.80							-	
King 4	CAS	Cas 2-1	10.50							-	
M103	CAS	Cas 2-1 Cas 2-2 Cas 3-1	7.40	6'	8x30				9200 Ly	581	
M52	CAS	Cas 2-2 Cas 3-1	7.30	10'	8x30				4600 Ly	7654	
Mel 15	CAS	Cas 1-1 Cas 2-1	6.60							-	
Mrk 6	CAS	Cas 2-1	7.10							-	
N103	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	9.80	6'	8x30				9200 Ly	103	
N133	CAS	Cas 1-1 Cas 2-1 Cas 2-2	9.40							133	
N146	CAS	Cas 1-1 Cas 2-1 Cas 2-2	9.10							146	
N189	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	8.80							189	
N366	CAS	Cas 1-1 Cas 2-1 Cas 2-2	12.00							366	
N433	CAS	Cas 2-1 Cas 2-2 Cas 3-1	9.00							433	
N609	CAS	Cas 1-1 Cas 2-1 Cas 2-2	11.00							609	
N743	CAS	Cas 2-1 Cas 2-2 Cas 3-1	9.50							743	
N7788	CAS	Cas 2-1 Cas 2-2 Cas 3-1	9.40							7788	
N7795	CAS	Cas 2-1 Cas 2-2 Cas 3-1	12.00							7795	
Stock 2	CAS	Cas 2-1 Cas 2-2	4.40							-	
Stock 24	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	8.80							-	
Stock 5	CAS	Cas 1-1 Cas 2-1 Cas 2-2	7.00							-	
Tr 1	CAS	Cas 1-1 Cas 2-1 Cas 2-2 Cas 3-1	8.10							-	
Tr 3	CAS	Cas 1-1 Cas 2-1	7.00							-	

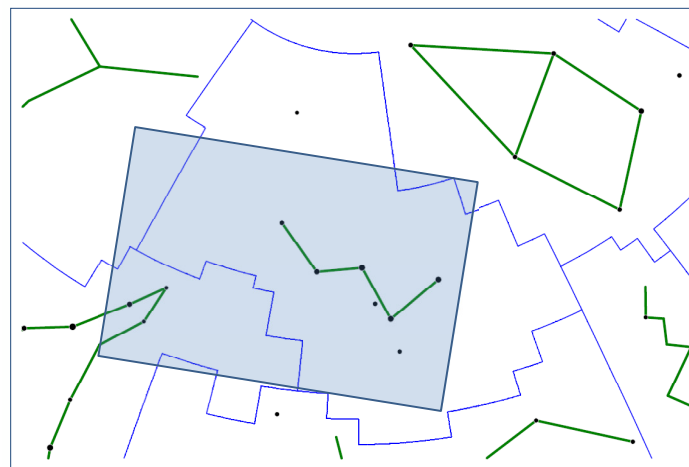
Galaxies											
Object	Const.	Name	Page(s)	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
C17	CAS		Cas 3-1	9.30	13"x7"					2.3 Mio. ly	147
C18	CAS		Cas 3-1	9.20	8"x7"					2.3 Mio. Ly	185
H11	CAS		Cas 3-1	10.90	2.4'						278
Maffei 1	CAS		Cas 2-1	11.40							-
4 galaxies											

Nebula											
Object	Const.	Name	Page(s)	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
C11	CAS	Bubble nebula	Cas 2-2 Cas 3-1	11	1'	120 mm	++	+	-	7100 Ly	7635
I1805	CAS		Cas 1-1 Cas 2-1	6.50	1.5°x1°	50 mm				7800 Ly	IC1805
I1848	CAS		Cas 1-1 Cas 2-1	6.50	1.5°x0.5°	50 mm	++	++	-	7800 Ly	IC1848
N281	CAS		Cas 2-1 Cas 2-2 Cas 3-1	7.40	20'x15'	10x50	+	+	o	7200 Ly	281
4 nebula											

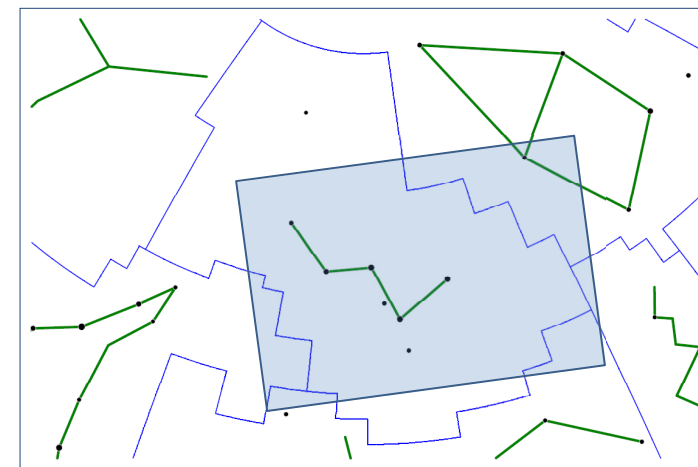
Planetary nebula											
Object	Const.	Name	Page(s)	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
I1747	CAS		Cas 1-1 Cas 2-1 Cas 2-2	12.00	13"						IC1747
I289	CAS		Cas 1-1 Cas 2-1	12.00	45"						IC289
2 planetary nebula											



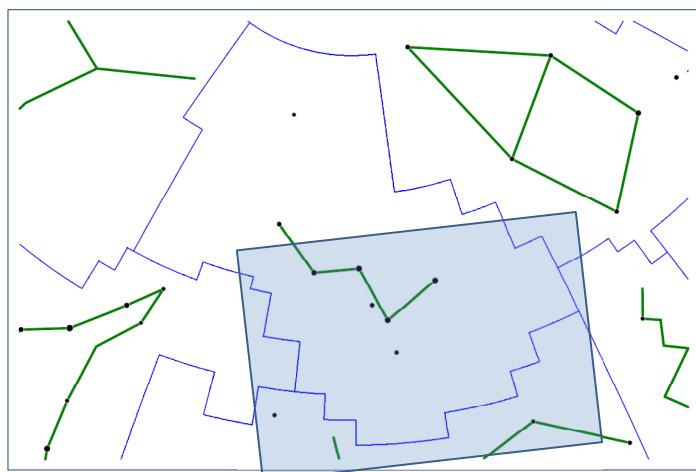
Cas 1-1



Cas 2-1

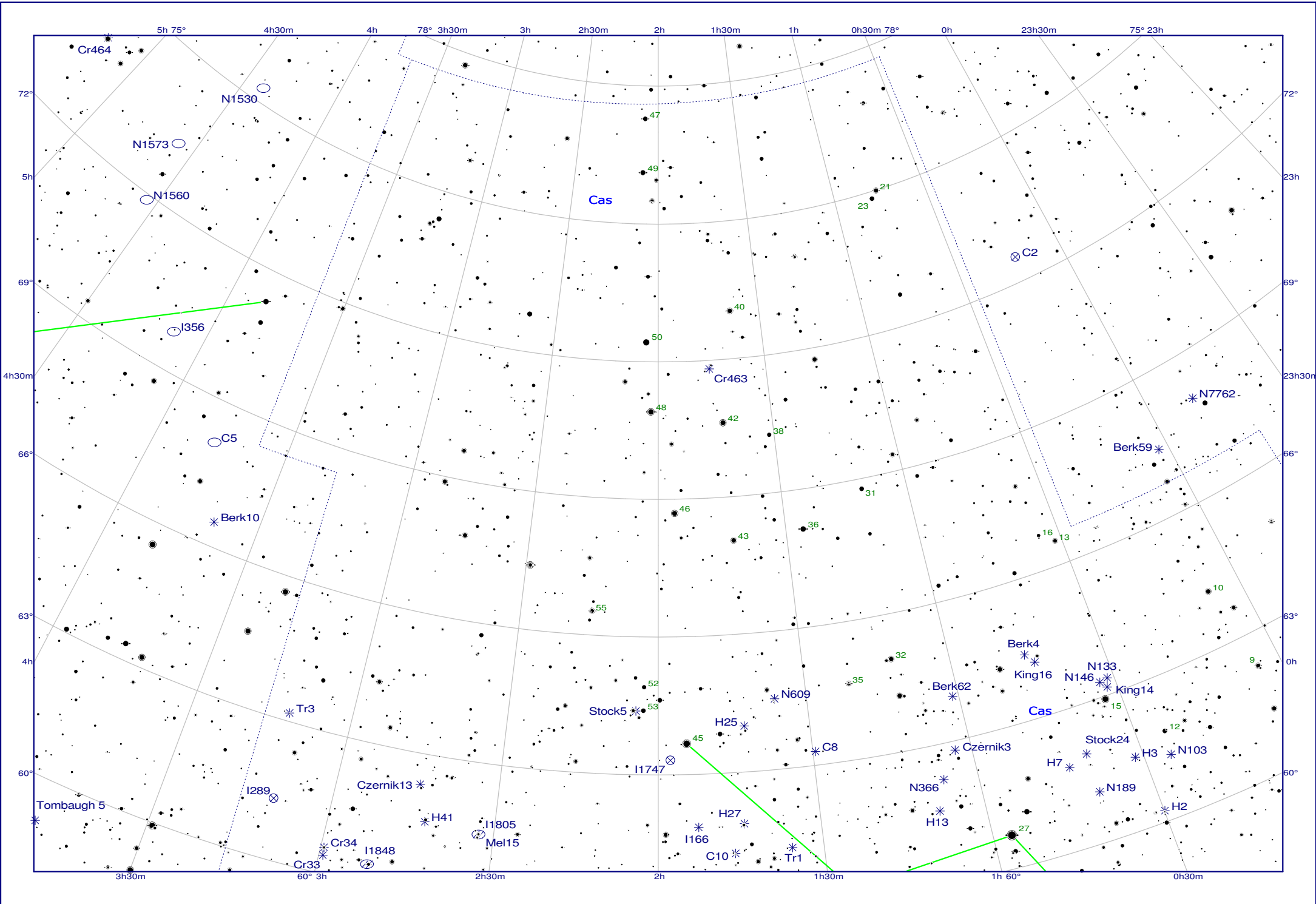


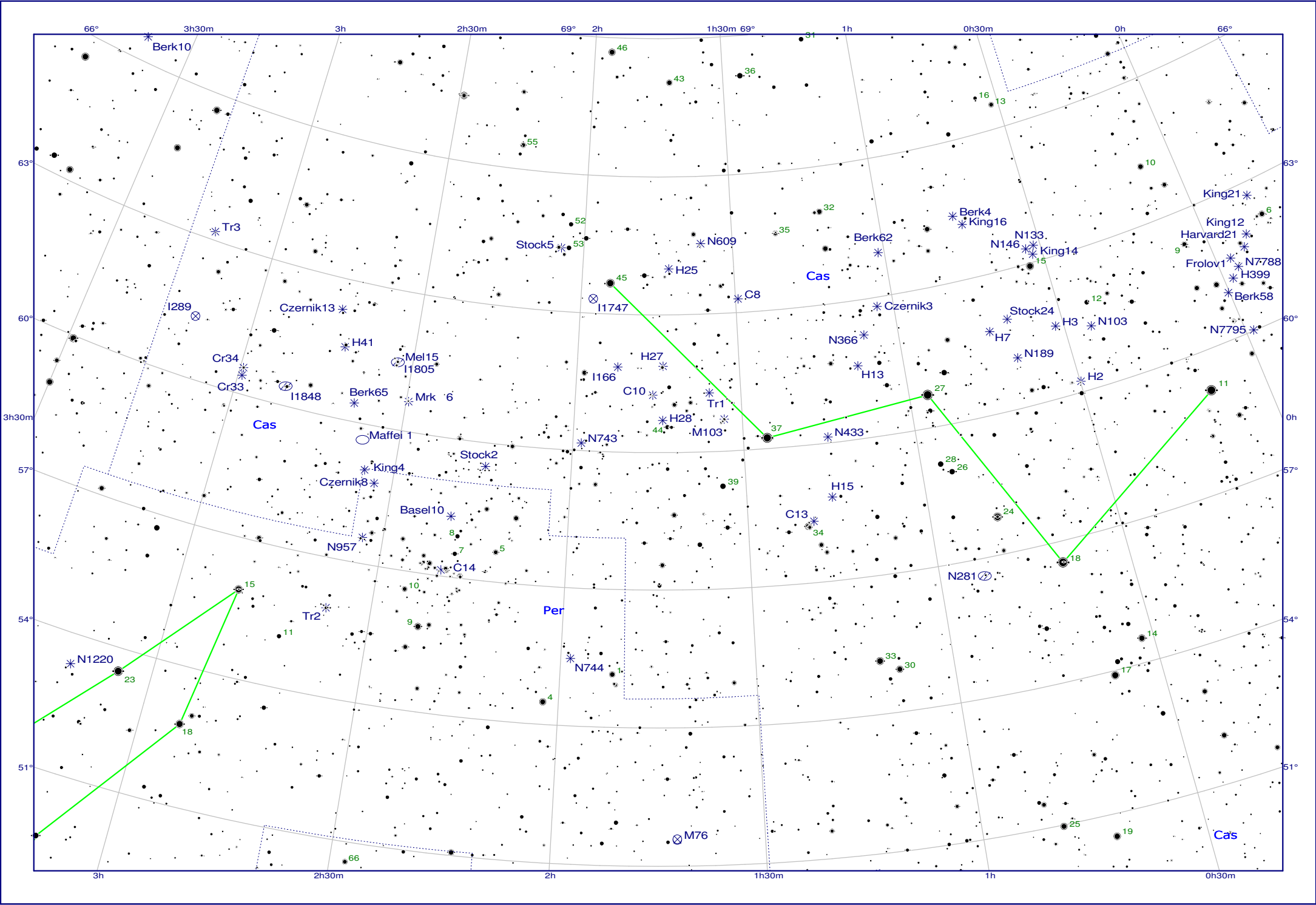
Cas 2-2

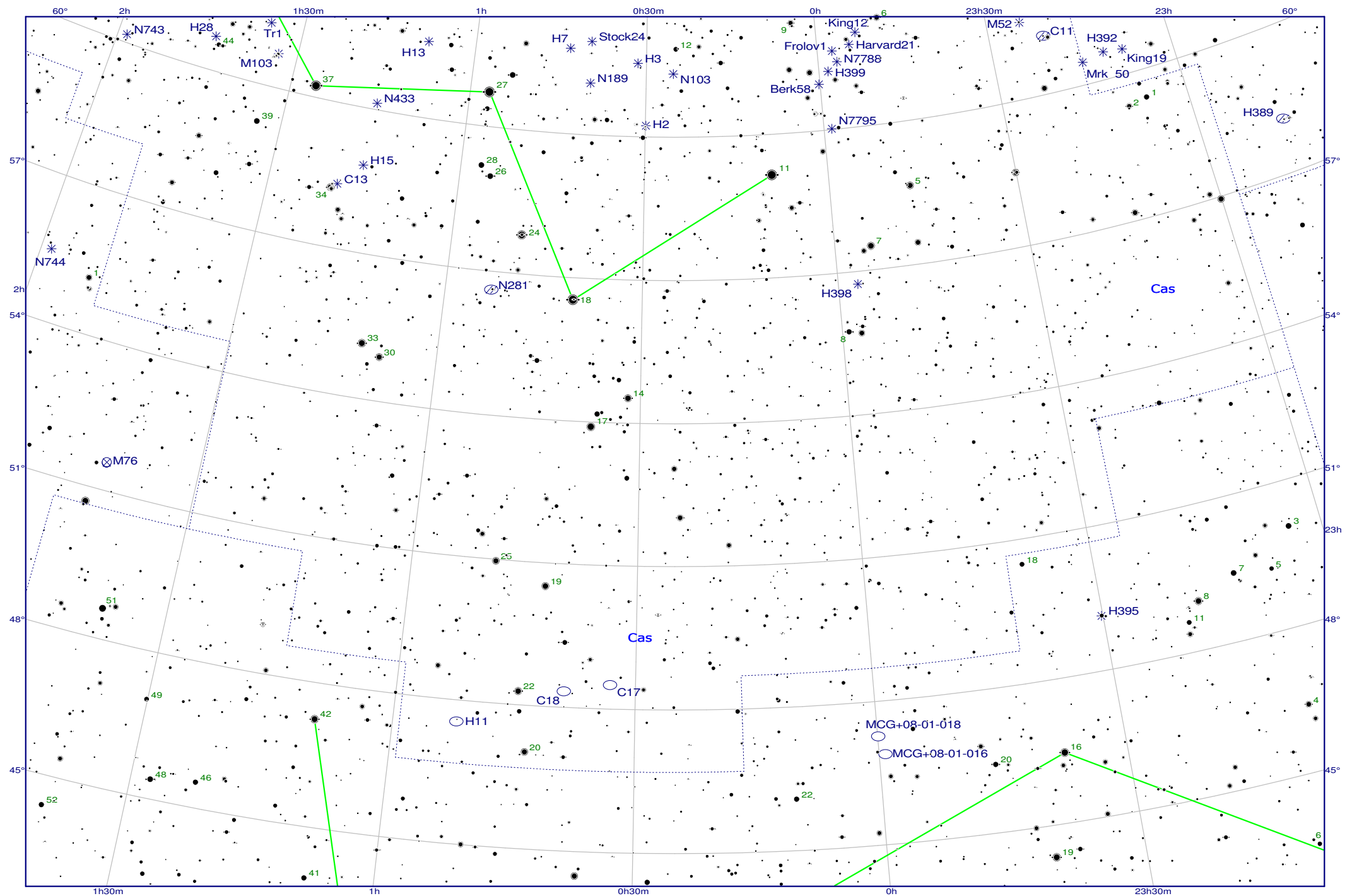


Cas 3-1

Star map history	
V 1.00 – 1.02 (2010)	Initial releases
V 1.03 (2014)	Bigger fonts, increased readability C2 added (missing because $V > 12^m$)







Open clusters											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
Berk 10	CAM			12.00							-
Berk 4	CAS			10.60							-
Berk 59	CEP			11.00							-
Berk 62	CAS			9.30							-
C10	CAS			7.10	15'	8x30				9200 Ly	663
C8	CAS		bright, pretty large, pretty rich in stars	9.50	7'					3721 Ly	559
Cr 33	CAS			5.90							-
Cr 34	CAS			6.80							-
Cr 463	CAS			5.70							-
Cr 464	CAM			4.20							-
Czernik 13	CAS			10.40							-
Czernik 3	CAS			9.90							-
H13	CAS			9.00	6'						381
H2	CAS			6.50	15'	10x50				5500 Ly	129
H25	CAS			8.20	3.5'						637
H27	CAS			6.50	5'x3'	8x30				9200 Ly	654
H3	CAS			0.00	1.2'						136
H41	CAS			6.70	20'						1027
H7	CAS			7.00	12'						225
I166	CAS			11.70							IC166
King 14	CAS			8.50							-
King 16	CAS			10.30							-
Mel 15	CAS			6.60							-
N103	CAS			9.80	6'	8x30				9200 Ly	103
N133	CAS			9.40							133
N146	CAS			9.10							146
N189	CAS			8.80							189
N366	CAS			12.00							366
N609	CAS			11.00							609
N7762	CEP			10.00							7762
Stock 24	CAS			8.80							-
Stock 5	CAS			7.00							-
Tombaugh 5	CAM			8.40							-
Tr 1	CAS			8.10							-
Tr 3	CAS			7.00							-
35 open clusters											

Galaxies											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
C5	CAM			9.20	21'x20'					13 Mio. Ly	IC342
I356	CAM			10.50							IC356
N1530	CAM			11.40							1530
N1560	CAM			11.40							1560
N1573	CAM			11.70							1573
5 galaxies											

Nebula											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
I1805	CAS			6.50	1.5°x1°	50 mm				7800 Ly	IC1805
I1848	CAS			6.50	1.5°x0.5°	50 mm	++	++	-	7800 Ly	IC1848
2 nebula											

Planetary nebula											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
C2	CEP			11.40	1'	80 mm	o	+	o		40
I1747	CAS		Stellar	12.00	13"						IC1747
I289	CAS			12.00	45"						IC289
3 planetary nebula											

Open clusters											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
Basel 10	PER	Owl cluster h+χ	bright, pretty large, pretty rich in stars	9.90							-
Berk 10	CAM			12.00							-
Berk 4				10.60							-
Berk 58	CAS			9.70							-
Berk 62	CAS			9.30							-
Berk 65	CAS			10.20							-
C10	CAS			7.10	15'	8x30				9200 Ly	663
C13	CAS			6.40	15'x10'	8x30				8200 Ly	457
C14	PER			4.30	20'	n. eye				8000 Ly	869/884
C8	CAS			9.50	7'					3721 Ly	559
Cr 33	CAS			5.90						-	
Cr 34	CAS			6.80						-	
Czernik 13	CAS			10.40						-	
Czernik 3	CAS			9.90						-	
Czernik 8	PER			9.70						-	
Frolov 1	CAS			9.20						-	
H13	CAS			9.00	6'					381	
H15	CAS			8.80	6'					436	
H2	CAS			6.50	15'	10x50				5500 Ly	129
H25	CAS			8.20	3.5'						637
H27	CAS			6.50	5'x3'	8x30				9200 Ly	654
H28	CAS			7.90							659
H3	CAS			0.00	1.2'						136
H399	CAS			8.50	17'						7790
H41	CAS			6.70	20'						1027
H7	CAS			7.00	12'						225
Harvard 21	CAS			9.00							-
Il166	CAS			11.70							IC166
King 12	CAS			10.00							-
King 14	CAS			8.50							-
King 16	CAS			10.30							-
King 21	CAS			9.80							-
King 4	CAS			10.50							-
M103	CAS			7.40	6'	8x30				9200 Ly	581
Mel 15	CAS			6.60							-
Mrk 6	CAS			7.10							-
N103	CAS			9.80	6'	8x30				9200 Ly	103
N1220	PER			11.80							1220
N133	CAS			9.40							133
N146	CAS			9.10							146
N189	CAS			8.80							189
N366	CAS			12.00							366
N433	CAS			9.00							433
N609	CAS			11.00							609
N743	CAS			9.50							743
N744	PER			7.90							744
N7788	CAS			9.40							7788
N7795	CAS			12.00							7795
N957	PER			7.60							957
Stock 2	CAS			4.40							-
Stock 24	CAS			8.80							-
Stock 5	CAS			7.00							-
Tr 1	CAS			8.10							-
Tr 2	PER			5.90							-
Tr 3	CAS			7.00							-
55 open clusters											

Galaxies											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
Maffei 1	CAS			11.40							-
1 galaxy											

Nebula											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
II805	CAS			6.50	1.5°x1°	50 mm				7800 Ly	IC1805
II848	CAS			6.50	1.5°x0.5°	50 mm	++	++	-	7800 Ly	IC1848
N281	CAS			7.40	20'x15'	10x50	+	+	o	7200 Ly	281
3 nebula											

Planetary nebula											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
H26	PER		Stellar	12.00	163"						651
II747	CAS			12.00	13"						IC1747
II89	CAS			12.00	45"						IC289
M76	PER	Little dumbell		10.10	1'	10x50	++	++	-	4000 Ly	650
4 planetary nebula											

Open clusters											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
Berk 4	CAS			10.60							-
Berk 58	CAS			9.70							-
Berk 59	CEP			11.00							-
Berk 62	CAS			9.30							-
C10	CAS	Owl cluster		7.10	15'	8x30				9200 Ly	663
C13	CAS			6.40	15'x10'	8x30				8200 Ly	457
C8	CAS		bright, pretty large, pretty rich in stars	9.50	7'					3721 Ly	559
Czernik 3	CAS			9.90							-
Frolov 1	CAS			9.20							-
H13	CAS			9.00	6'						381
H15	CAS			8.80	6'						436
H2	CAS			6.50	15'	10x50				5500 Ly	129
H25	CAS			8.20	3.5'						637
H27	CAS			6.50	5'x3'	8x30				9200 Ly	654
H28	CAS			7.90							659
H3	CAS			0.00	1.2'						136
H392	CEP			7.90	3'	10x50				10000 Ly	7510
H398	CAS			6.70	15'	10x50				5900 Ly	7789
H399	CAS			8.50	17'						7790
H7	CAS			7.00	12'						225
Harvard 21	CAS			9.00							-
I166	CAS			11.70							IC166
King 12	CAS			10.00							-
King 14	CAS			8.50							-
King 16	CAS			10.30							-
King 19	CEP			9.20							-
King 21	CAS			9.80							-
M103	CAS			7.40	6'	8x30				9200 Ly	581
M52	CAS			7.30	10'	8x30				4600 Ly	7654
Mrk 50	CEP			8.50							-
N103	CAS			9.80	6'	8x30				9200 Ly	103
N133	CAS			9.40							133
N146	CAS			9.10							146
N189	CAS			8.80							189
N366	CAS			12.00							366
N433	CAS			9.00							433
N609	CAS			11.00							609
N743	CAS			9.50							743
N744	PER			7.90							744
N7762	CEP			10.00							7762
N7788	CAS			9.40							7788
N7795	CAS			12.00							7795
Stock 2	CAS			4.40							-
Stock 24	CAS			8.80							-
Stock 5	CAS			7.00							-
Tr 1	CAS			8.10							-
46 open clusters											

Nebula											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
C11	CAS	Bubble nebula		11	1'	120 mm	++	+	-	7100 Ly	7635
C9	CEP			7.6	50'						-
H389	CEP			7.20	20'	63 mm				11000 Ly	7380
N281	CAS			7.40	20'x15'	10x50	+	+	o	7200 Ly	281
4 nebula											

Planetary nebula											
Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
H26	PER	Little dumbell	Stellar	12.00	163"						651
I1747	CAS			12.00	13"						IC1747
M76	PER			10.10	1'	10x50	++	++	-	4000 Ly	650
3 planetary nebula											

Open clusters

Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
Berk 58	CAS			9.70							-
C13	CAS	Owl cluster		6.40	15'x10'	8x30				8200 Ly	457
Frolov 1	CAS			9.20							-
H13	CAS			9.00	6'						381
H15	CAS			8.80	6'						436
H2	CAS			6.50	15'	10x50				5500 Ly	129
H28	CAS			7.90							659
H3	CAS			0.00	1.2'						136
H392	CEP			7.90	3'	10x50				10000 Ly	7510
H395	AND			5.60	15'						7686
H398	CAS			6.70	15'	10x50				5900 Ly	7789
H399	CAS			8.50	17'						7790
H7	CAS			7.00	12'						225
Harvard 21	CAS			9.00							-
King 12	CAS			10.00							-
King 19	CEP			9.20							-
M103	CAS			7.40	6'	8x30				9200 Ly	581
M52	CAS			7.30	10'	8x30				4600 Ly	7654
Mrk 50	CEP			8.50							-
N103	CAS			9.80	6'	8x30				9200 Ly	103
N189	CAS			8.80							189
N433	CAS			9.00							433
N743	CAS			9.50							743
N744	PER			7.90							744
N7788	CAS			9.40							7788
N7795	CAS			12.00							7795
Stock 24	CAS			8.80							-
Tr 1	CAS			8.10							-

28 open clusters

Galaxies

Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
C17	CAS			9.30	13'x7'					2.3 Mio. ly	147
C18	CAS			9.20	8'x7'					2.3 Mio. Ly	185
H11	CAS			10.90	2.4'						278
MCG +08-01-016	AND			12.00							-
MCG +08-01-018	AND			12.00							-

5 galaxies

Nebula

Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
C11	CAS	Bubble nebula		11	1'	120 mm	++	+	-	7100 Ly	7635
H389	CEP			7.20	20'	63 mm				11000 Ly	7380
N281	CAS			7.40	20'x15'	10x50	+	+	o	7200 Ly	281

3 nebula

Planetary nebula

Object	Const.	Name	Description	Vmag	Size	Instrument	OIII	UHC	H-β	Distance	NGC/IC
H26	PER			12.00	163"						651
M76	PER	Little dumbell		10.10	1'	10x50	++	++	-	4000 Ly	650

2 planetary nebula