Microsoft Excel - extPpalCS39

	type	HD	mV	MV	Teff	RQ	dir	count 11-16+	3k<C<20k;3k<A<7k	PropA1	PropA2	PropA3	PropA4	PropA5	PropA
2	sol-like	42807	6.4	5.1	5750		Anticentre	3261	0						
3	sol-like	42618	6.9	5	5800		Anticentre	6031	1						
4	sol-like	46241	5,8	6,35	4900	near SRa02	Anticentre	4612	Too cold 0						
5	sol-like	165401	6,8	4,9	5850		Centre	9227	1						
6	sol-like	175726	6,7	4,6	6100	SRc01	Centre	2286	NO 0						
7	sol-like	168443	6,9	4	5600	2planets	Centre	10400	1						
8	off-MS sol-lik	57006	5,9	2	6030		Anticentre	6352	1					1	
9	Red Giant	43023					Anticentre	3918	0						
10	Red Giant	47220					Anticentre	4614	1			1			
11	Red Giant	40726					Anticentre	1181	NO 0						
12	Red Giant	166284					Centre	8794	1						
13	Red Giant	184013				!very east	Centre	14628	NO 0						
14	Red Giant	184297				!very east	Centre	9173	far east 0						
15	Cluster/Red (	Berkeley 32				in exo-field	Anticentre	8223	NO Bright sta 0						
16	Cluster/Red (	NGC2236				in exo-field	Anticentre	7200	0						
17	Cluster/Red (	NGC6633				in seismo-fiel	Centre	9088	1						
18	Cluster/Red (	NGC6705				in exo-field	Centre	24409	NO 0						
19	O-stars	52266				near LRa02	Anticentre	7451	0						
20	O-stars	46573					Anticentre	4861	1			1			
21	O-stars	47129				SRa02	Anticentre	6289	1		1				
22	O-stars	46150				SRa02	Anticentre	4832	0						
23	O-stars	166802					Centre	9348	0						
24	O-stars	172275				!V=9.35	Centre	29828	NO 0						
25	O-stars	BD-08 4617				!V~9.3	Centre	9021	0						
26	O-stars	173783				!V~9.4	Centre	25213	NO 0						
27	B-sGiant	47240				B1 I	Anticentre	4294	1		1				
28	B-sGiant	46769				B8I	Anticentre	6054							

LRa04-05 (winter 10-11)

Solar 'very-like' cand

LRc06-07 : (summer 11)

4 red Giants in Open cluster

Microsoft Excel - extPpalCS39

J5 = 1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
14	Red Giant	184297				!very east	Centre	9173	far east	0					
15	Cluster/Red (	Berkeley 32				in exo-field	Anticentre	8223	NO Bright sta	0					
16	Cluster/Red (	NGC2236				in exo-field	Anticentre	7200		0					
17	Cluster/Red (	NGC6633				in seismo-fiel	Centre	9088		1					
18	Cluster/Red (	NGC6705				in exo-field	Centre	24409	NO	0					
19	O-stars	52266				near LRa02	Anticentre	7451		0					
20	O-stars	46573					Anticentre	4861		1			1		
21	O-stars	47129				SRa02	Anticentre	6289		1		1			
22	O-stars	46150				SRa02	Anticentre	4832		0					
23	O-stars	166802					Centre	9348		0					
24	O-stars	172275				!V=9.35	Centre	29828	NO	0					
25	O-stars	BD-08 4617				!V~9.3	Centre	9021		0					
26	O-stars	173783				!V~9.4	Centre	25213	NO	0					
27	B-sGiant	47240				B1 I	Anticentre	4294		1		1			
28	B-sGiant	46769				B8I	Anticentre	6054							
29	Beta Cep	48553				prio 2	Anticentre	5815		0					
30	Beta Cep	171305				prio 1	Centre	15802	NO	1					
31	HgMn	46886				prio 1	Anticentre	4459		0					
32	HgMn	45975				prio 2	Anticentre	5672		0					
33	HgMn	47278				prio 4	Anticentre	4254		1					
34	HgMn	55362				prio 5	Anticentre	8851		0					
35	HgMn	173673				prio 3	Centre	25799	NO	0					
36	Be stars	49330				LRa01	Anticentre			0				0	
37	Star+planet	46375				SRa02 +plan	Anticentre			1		1			
38	Cluster	NGC2264					Anticentre	3889		1					
39	Cluster	NGC2244					Anticentre	4132	to many brigh	1					
40	EXO	CoRoT-7b				LRa01	Anticentre	8049		1				1	
41	EXO	CoRoT-9b				SR...	Centre	6985		1					
42	type	HD	mV	MV	Teff	RQ	dir	count			PropA1	PropA2	PropA3	PropA4	PropA5

Feuil1 / Feuil2 / Feuil3

Prêt

LRa04-05 (winter 2010-11)

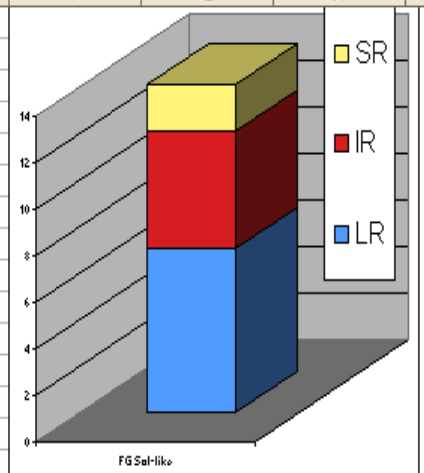
Microsoft Excel - targets_sismoEM

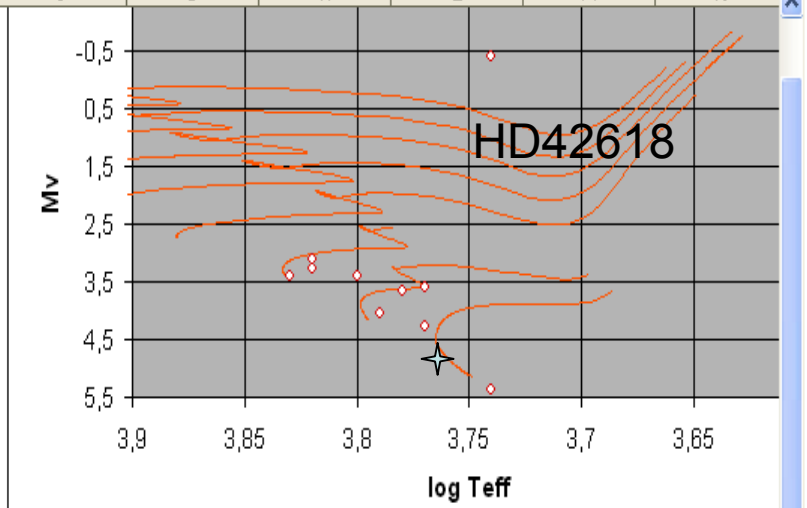
HD42618:

mV=6.87;

logTeff=3.76

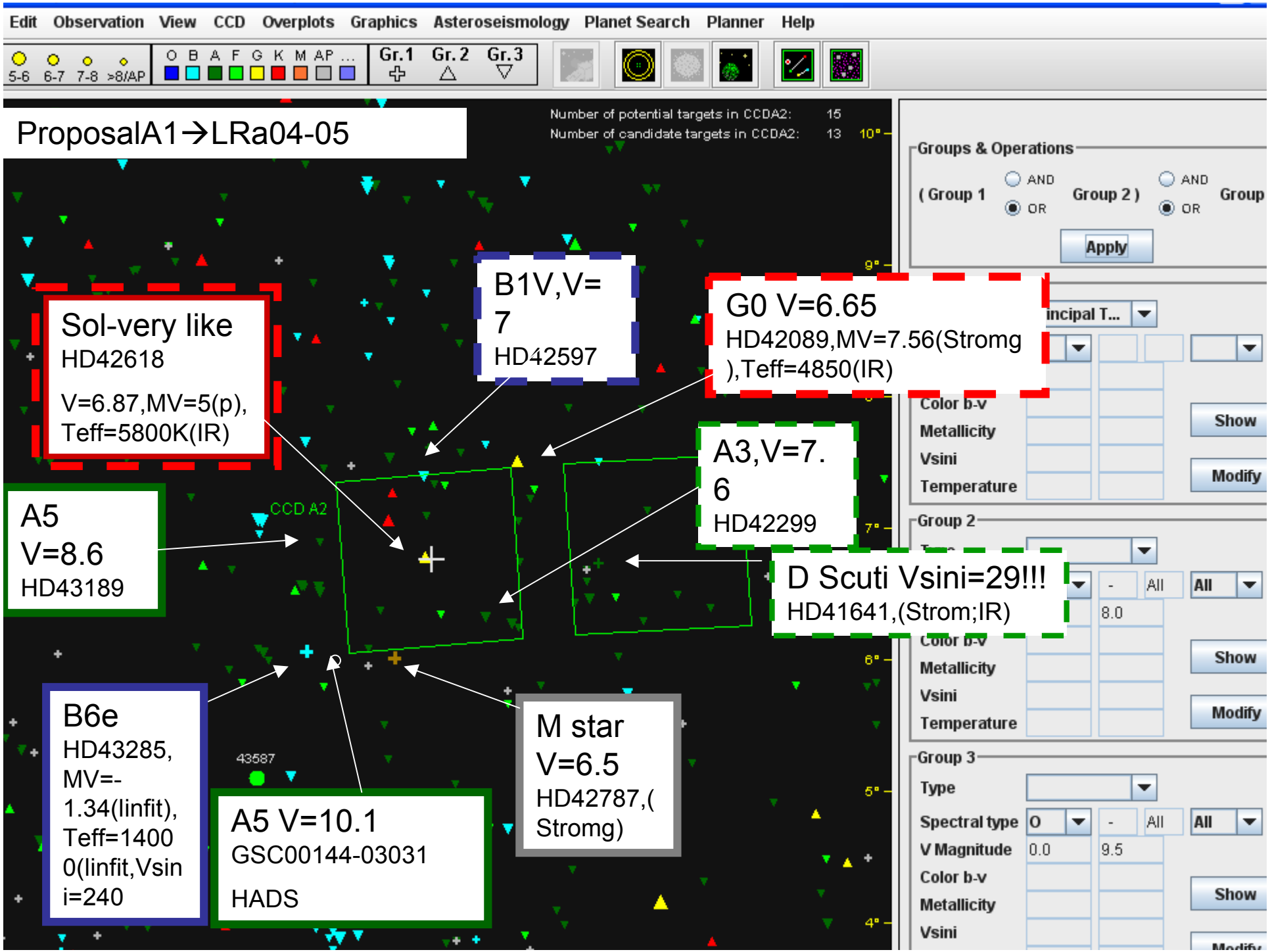
Mv=5.05





RunType	Target HD	Target CID	Run	CCD	Priority	Star type	Sp T	mv	log Teff	Mv2	vsini	Remark	Coord anal
IRa01	49933	20	3	A1	0	FG Sol-like	F2 V	5.77	3,83	3,41		crit 2, Fe/H=	T.Appourcha
SRc01	175726	7837	4	A2	2	FG Sol-like	G5.0	6.72	3,78			rot	T.Appourcha
LRc01	181420	8652	5	A1	0	FG Sol-like	F2	6.57	3,82	3,1	21	crit 2, par 20	T.Appourcha
LRc01	181906	8777	5	A2	2	FG Sol-like	F8	7.65	3,8	3,4	18	crit 0	Appourchau
LRa01	49385	18	6	A1	1	FG Sol-like	G0	7.89	3,78	3,67	7.5	crit 0,super c	T.Appourcha
LRa01	49933	20	6	A2	0	FG Sol-like	F2	5.77	3,83	3,41		crit 2	T.Appourcha
LRc02	170987	8786	8	A2	1	FG Sol-like	F5	7.5	3,82	3,29	21		T.Appourcha
LRa02	52265	1426	11	A2	0	FG Sol-like	G0 III-IV	6.3	3,79	4,06		planet	T.Appourcha
IRLRc03	169392	9161	12	A2	1	FG Sol-like	G0 IV	7.2	3,74	-0,41			
IRLRc03	169556	9071	12	A2	2	FG Sol-like	G5	9.32	3,77	3,6			
IRLRc04	169689	9540	13	A2	0	FG Sol-like	G8 III-IV	5.65	3,72	6,14			
IRLRc04	169889	9709	13	A2	3	FG Sol-like	G9 V	8,27	3,74	5,37			
LRa03	43587	3474	14	A2	0	FG Sol-like	F9 V	5,71	3,77	4,28	6		
SRa03	47530	324	15	A2		FG Sol-like	G5	7,75	3,71	6,9			

Targets / AFstars / BOstars / FGSol-like / GiantAnd / Sequences


Edit Observation View CCD Overplots Graphics Asteroseismology Planet Search Planner Help
5-6 6-7 7-8 >8/AP
O B A F G K M AP ...
Gr.1 Gr.2 Gr.3
ProposalA1→LRa04-05
Number of potential targets in CCDA2: 15
Number of candidate targets in CCDA2: 13
Sol-very like
HD42618
V=6.87,MV=5(p),
Teff=5800K(IR)
B1V,V=
7
HD42597
G0 V=6.65
HD42089,MV=7.56(Stromg
),Teff=4850(IR)
A3,V=7.
6
HD42299
A5
V=8.6
HD43189
CCD A2
D Scuti Vsini=29!!!
HD41641,(Strom;IR)
B6e
HD43285,
MV=-
1.34(linfit),
Teff=1400
0(linfit,Vsin
i=240
43587
A5 V=10.1
GSC00144-03031
HADS
M star
V=6.5
HD42787,(
Stromg)
Groups & Operations
(Group 1
AND
OR
Group 2)
AND
OR
Group
Apply
Color b-v
Metallicity
Vsini
Temperature
Show
Modify
Group 2
All
All
8.0
Group 3
Type
Spectral type
O
All
All
V Magnitude
0.0
9.5
10°
9°
7°
6°
5°
4°

Then,
in the Anticentre direction

Thierry Morel (G. Alecian)

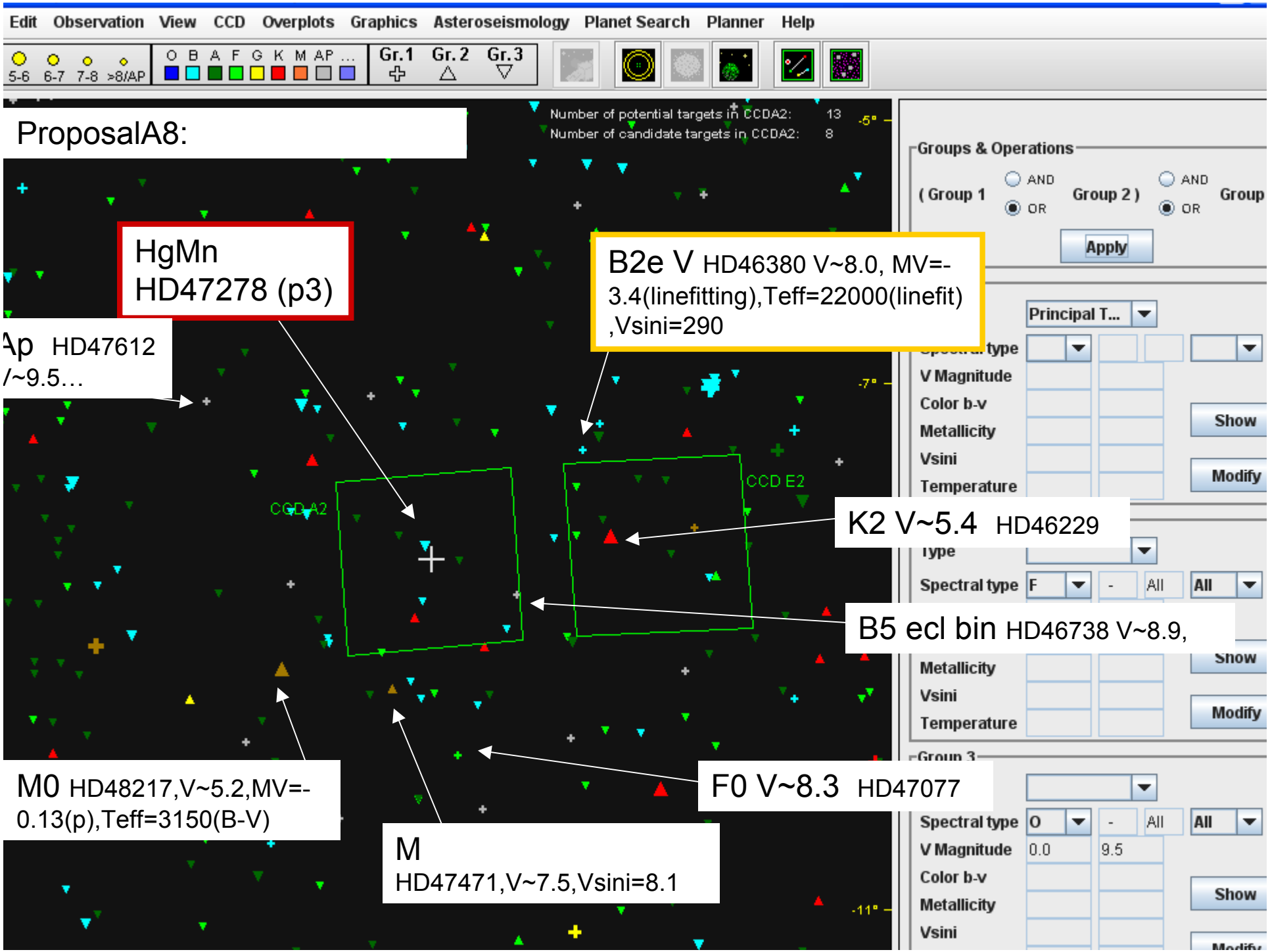
HgMn stars

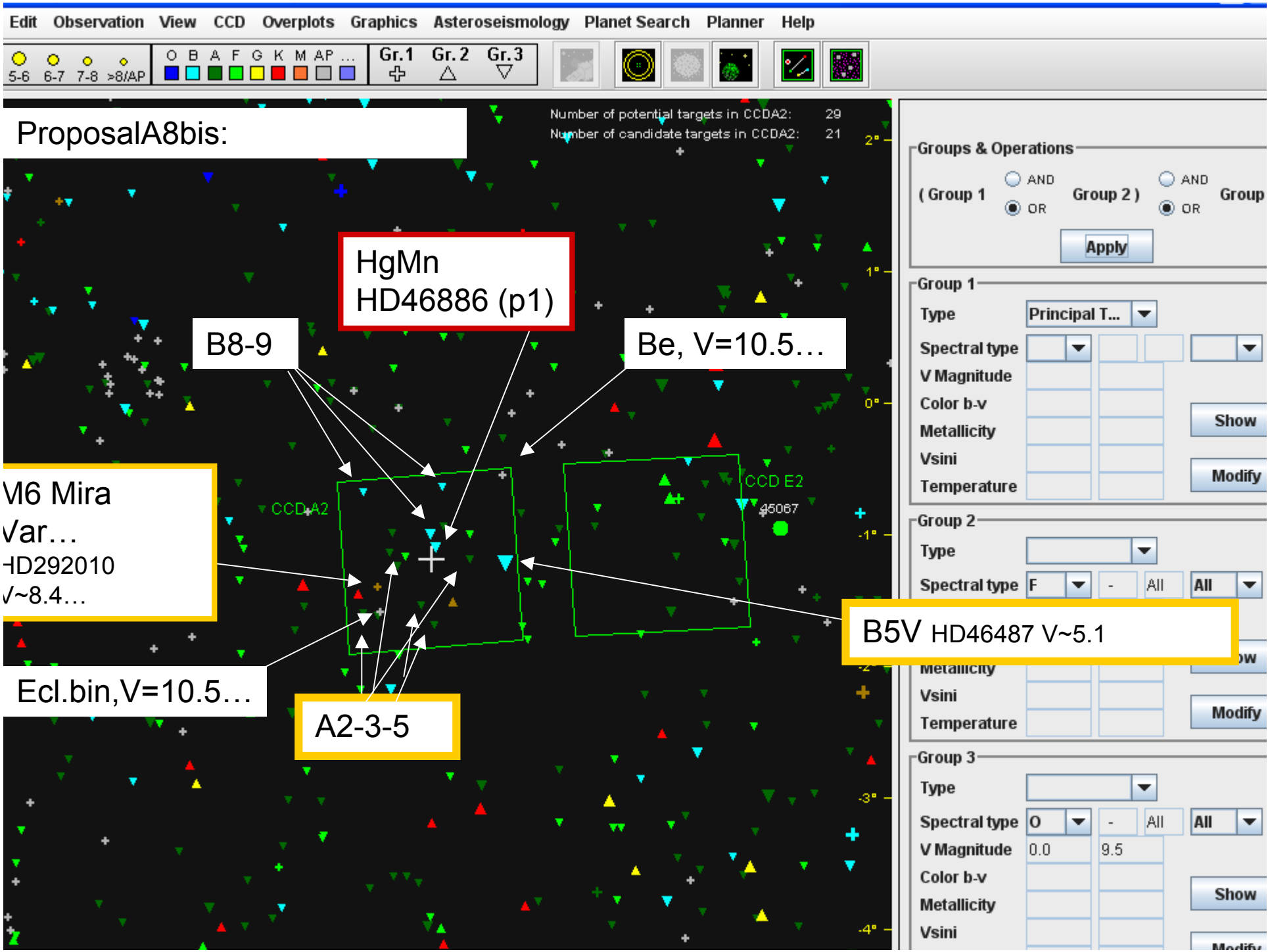
Table 1: List of targets.

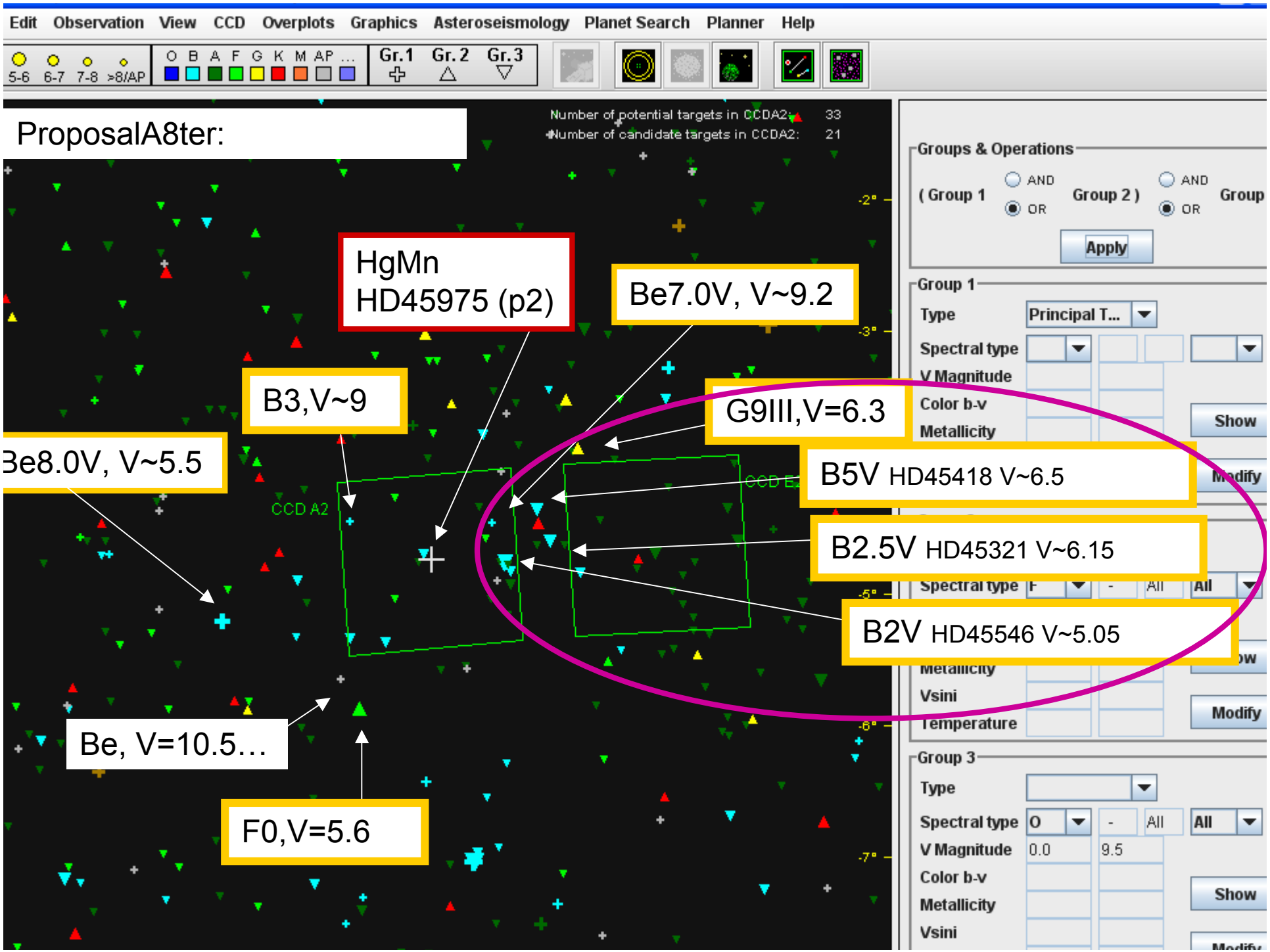
Priority	Target	Sp.T.	α(J2000)	δ(J2000)	V (mag)	$v \sin i$ (km s^{-1})	$T_{\rm eff}$ (K), $\log g$
highest	HD 46886	B9	06:35:44.8	–01:05:48	7.95	21	12 900, 3.8
	HD 45975	B9	06:30:27.5	–04:41:49	7.46	62	12 500, 4.0
lowest	HD 47278	B9	06:37:32.0	–08:14:08	7.23	37	11 500, 4.1

Table 2: Mean abundances (on the scale in which $\log \epsilon$[H]=12) and line-to-line scatter. The number of spectral lines used is given in brackets. The first column gives the solar abundances of Asplund et al. (2009, ARA&A, 47, 481).

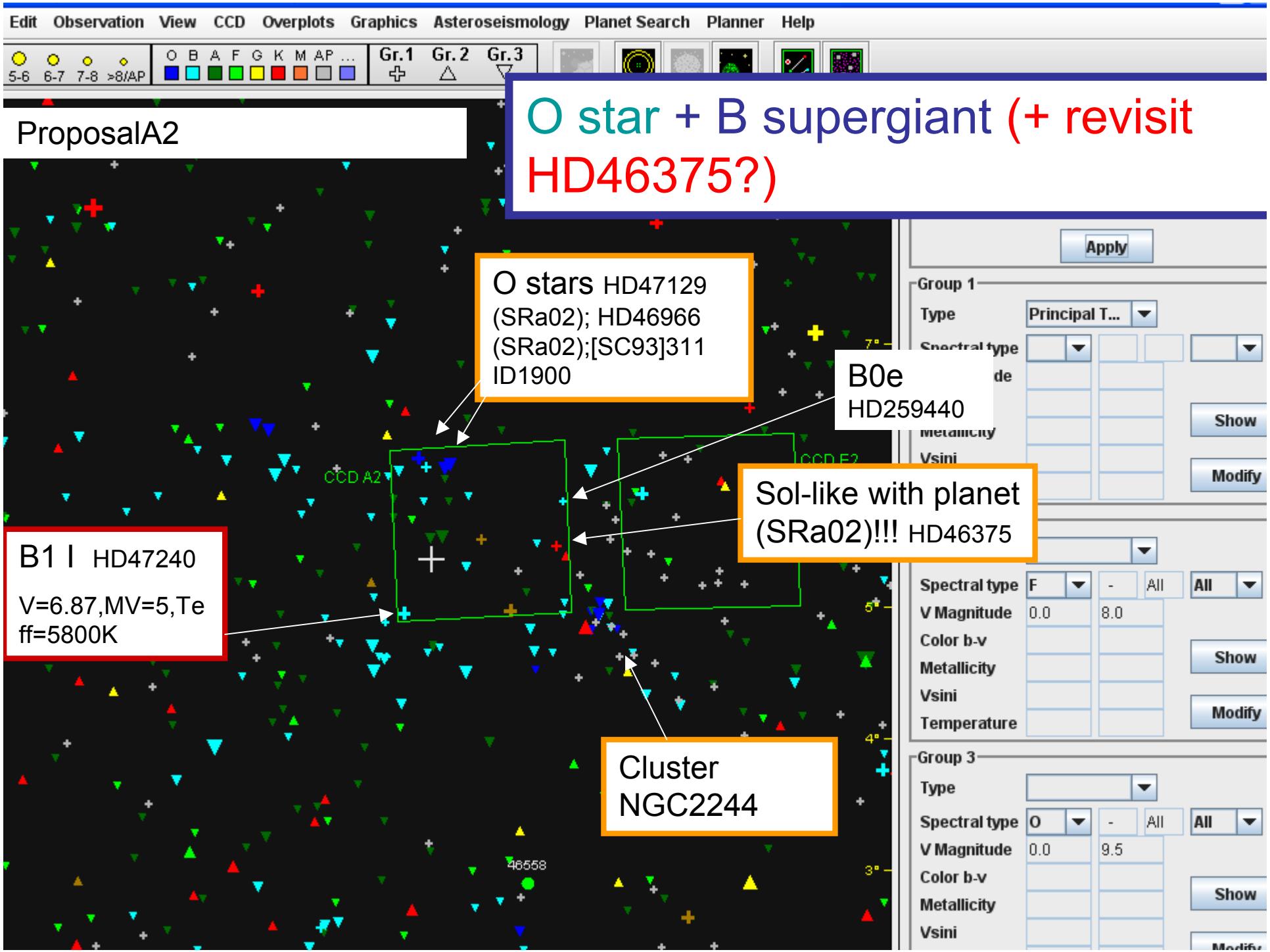
	Sun	HD 45975	HD 46616	HD 49886	HD 47278	HD 53004	HD 55362	HD 46886
$T_{\rm eff}$ (K)		12500	16000	13000	11500	11600	13000	12900
$\log g$		4.0	4.0	4.0	4.1	4.0	4.0	3.8
ξ (km s^{-1})		2	0	0	2	2	2	0
$v \sin i$ (km s^{-1})		62±2 (18)	7.7±1.7 (38)	8.50±0.8 (84)	37±2 (23)	51±8 (20)	54±5 (16)	21±2 (48)
$\log \epsilon$(C)	8.43	7.60 (1)	7.98±0.20 (3)	6.97±0.80 (2)			7.82 (2)	8.15±0.01 (2)
$\log \epsilon$(N)	7.83		8.29±0.20 (5)					8.37 (1)
$\log \epsilon$(O)	8.69		9.14±0.30 (2)					
$\log \epsilon$(Mg)	7.60	7.45±0.12 (2)	7.37±0.17 (2)	6.60±0.11 (4)	7.22±0.12 (2)	7.42±0.06 (2)		7.13±0.22 (2)
$\log \epsilon$(Al)	6.45							8.12 (1)
$\log \epsilon$(Si)	7.51	7.00±0.38 (2)	8.21±0.16 (3)	7.49±0.09 (3)		7.55 (1)		7.13±0.04 (2)

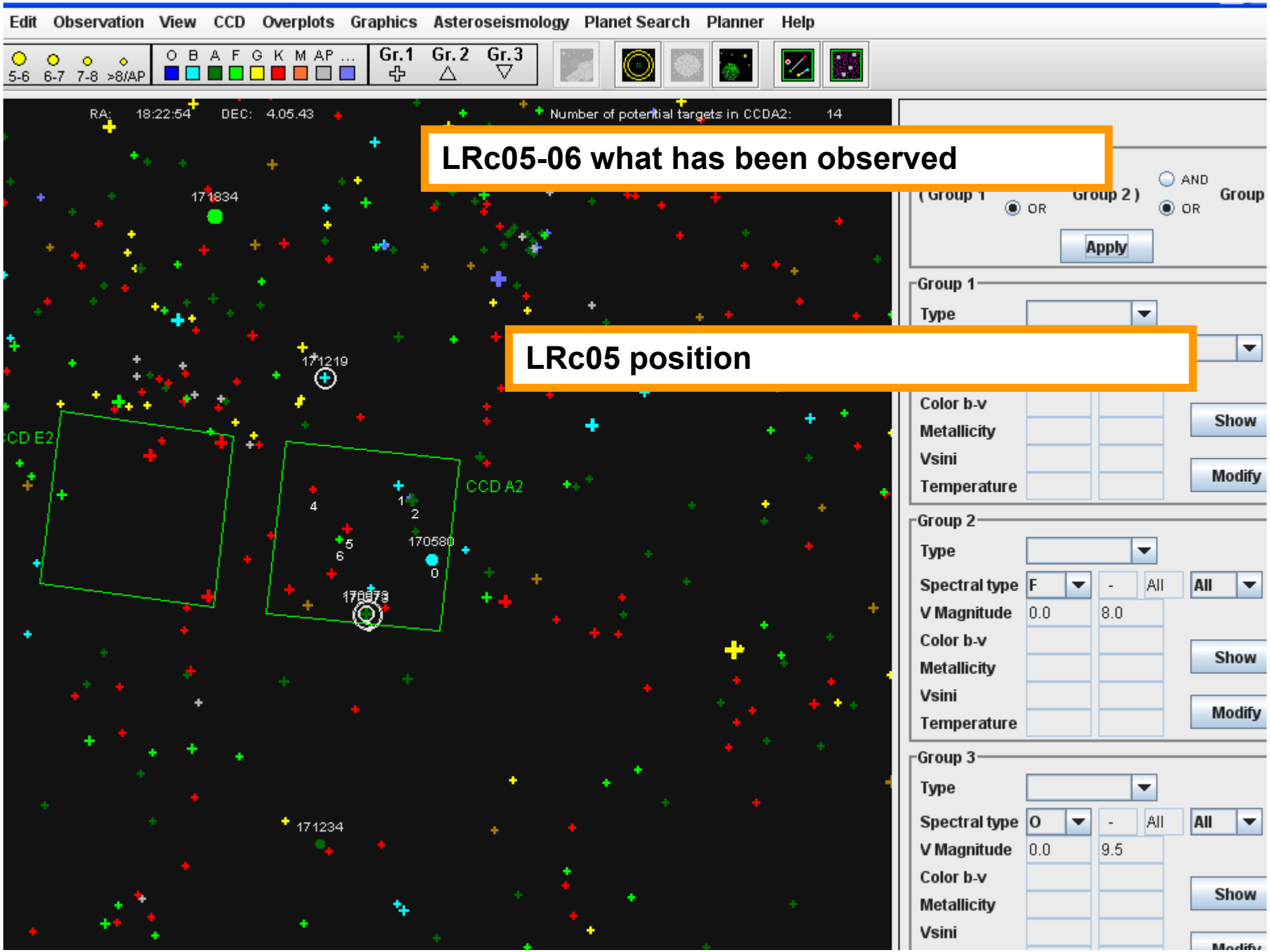

Edit Observation View CCD Overplots Graphics Asteroseismology Planet Search Planner Help
5-6 6-7 7-8 >8/AP
O B A F G K M AP ...
Gr.1 Gr.2 Gr.3
Number of potential targets in CCDA2: 13
Number of candidate targets in CCDA2: 8
ProposalA8:
HgMn
HD47278 (p3)
Ap HD47612
/~9.5…
B2e V HD46380 V~8.0, MV=-3.4(linefitting),Teff=22000(linefit),Vsini=290
CCD A2
CCD E2
K2 V~5.4 HD46229
B5 ecl bin HD46738 V~8.9,
M0 HD48217,V~5.2,MV=-0.13(p),Teff=3150(B-V)
M
HD47471,V~7.5,Vsini=8.1
F0 V~8.3 HD47077
Groups & Operations
(Group 1
AND
OR
Group 2)
AND
OR
Group
Apply
Principal T...
V Magnitude
Color b-v
Metallicity
Vsini
Temperature
Show
Modify
Spectral type
F
All
All
Metallicity
Vsini
Temperature
Show
Modify
Group 3
Spectral type
O
All
All
V Magnitude
0.0
9.5
Color b-v
Metallicity
Vsini
Show

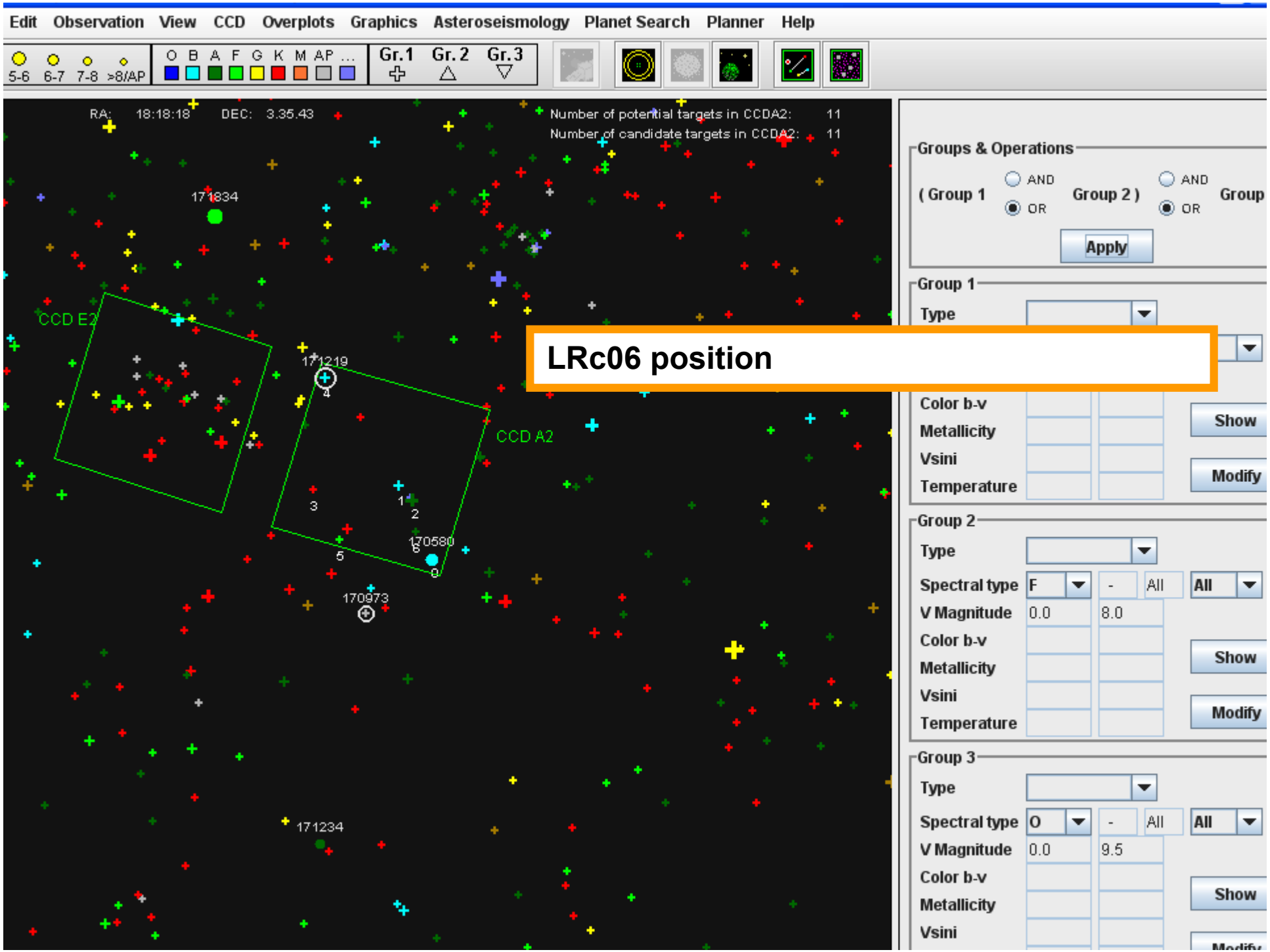

Edit Observation View CCD Overplots Graphics Asteroseismology Planet Search Planner Help
5-6 6-7 7-8 >8/AP
O B A F G K M AP ...
Gr.1 Gr.2 Gr.3
ProposalA8bis:
Number of potential targets in CCDA2: 29
Number of candidate targets in CCDA2: 21
HgMn
HD46886 (p1)
B8-9
Be, V=10.5…
M6 Mira
Var…
HD292010
V~8.4…
Ecl.bin,V=10.5…
A2-3-5
B5V HD46487 V~5.1
CCD A2
CCD E2
45067
Groups & Operations
(Group 1
AND
OR
Group 2)
AND
OR
Group
Apply
Group 1
Type
Principal T...
Spectral type
V Magnitude
Color b-v
Metallicity
Vsini
Temperature
Show
Modify
Group 2
Type
Spectral type
F
All
All
Metallicity
Vsini
Temperature
Modify
Group 3
Type
Spectral type
O
All
All
V Magnitude
0.0
9.5
Color b-v
Metallicity
Vsini
Show


ProposalA8ter:
Edit Observation View CCD Overplots Graphics Asteroseismology Planet Search Planner Help
5-6 6-7 7-8 >8/AP
O B A F G K M AP ...
Gr.1 Gr.2 Gr.3
Number of potential targets in CCDA2: 33
Number of candidate targets in CCDA2: 21
HgMn
HD45975 (p2)
Be7.0V, V~9.2
B3,V~9
G9III,V=6.3
Be8.0V, V~5.5
B5V HD45418 V~6.5
B2.5V HD45321 V~6.15
B2V HD45546 V~5.05
Be, V=10.5…
F0,V=5.6
CCD A2
Groups & Operations
(Group 1
AND
OR
Group 2)
AND
OR
Group
Apply
Group 1
Type
Principal T...
Spectral type
V Magnitude
Color b-v
Metallicity
Show
Modify
Vsini
Temperature
Group 3
Type
Spectral type
O
All
V Magnitude
0.0
9.5
Color b-v
Metallicity
Vsini
Show

O star + B supergiant (+ revisit HD46375?)




Edit Observation View CCD Overplots Graphics Asteroseismology Planet Search Planner Help
5-6 6-7 7-8 >8/AP
O B A F G K M AP ...
Gr.1 Gr.2 Gr.3
RA: 18:22:54 DEC: 4.05.43
Number of potential targets in CCDA2: 14
LRc05-06 what has been observed
LRc05 position
171834
171219
CCD E2
CCD A2
170580
171234
AND
OR
Apply
Group 1
Type
Color b-v
Metallicity
Vsini
Temperature
Show
Modify
Group 2
Type
Spectral type F - All All
V Magnitude 0.0 8.0
Color b-v
Metallicity
Vsini
Temperature
Show
Modify
Group 3
Type
Spectral type O - All All
V Magnitude 0.0 9.5
Color b-v
Metallicity
Vsini
Show


Edit Observation View CCD Overplots Graphics Asteroseismology Planet Search Planner Help
5-6 6-7 7-8 >8/AP
O B A F G K M AP ...
Gr.1 Gr.2 Gr.3
RA: 18:18:18 DEC: 3.35.43
Number of potential targets in CCDA2: 11
Number of candidate targets in CCDA2: 11
171834
CCD E2
171219
CCD A2
170580
170973
171234
LRc06 position
Groups & Operations
(Group 1
AND
OR
Group 2)
AND
OR
Group
Apply
Group 1
Type
Color b-v
Metallicity
Vsini
Temperature
Show
Modify
Group 2
Type
Spectral type F - All All
V Magnitude 0.0 8.0
Color b-v
Metallicity
Vsini
Temperature
Show
Modify
Group 3
Type
Spectral type O - All All
V Magnitude 0.0 9.5
Color b-v
Metallicity
Vsini
Show

Edit Observation View CCD Overplots Graphics Asteroseismology Planet Search Planner Help

HD171219:p1 B5IIIe, mid-Be star, quite rare in Corot's field of view, will probably show more pulsation modes than cooler Be. In addition, strong double-peaked emission at Halpha and Hbeta -> information on disk configuration and star inclination (constrain the modelling)

HD 170783: p1 'poorly known, … cooler than B5... but clearly hotter than the more boring B8/9 stars so still worth the effort…fast rotato …that may complicate matters. interesting object to bridge the slowly rotating SPBs and the pulsating Be stars.'

Type

HD 170699 p2 Delta Sct…fast rotator…but bright (V=6.9), possibility ground-based photometry/spectroscopy

Modify

HD 170580:p1 ''only star in the hybrid part of the Beta Cep and SPB strip, and so a potential candidate for p- and g-modes simultaneously, …Moreoververy low vsini ''

Metallicity

Vsini

HD171264.K0III giant:p3 low L, which would imply a nu_max well over 250 microHz, which is unfortunately out of reach for CoRoT. At these frequencies, the amplitudes of the peaks are too small to be detected by CoRoT. '

HD 170973:p1 CP star with SrCrSi overabundance …known rotational period of 18.2 days…possibility fo parallel ground based spectroscopy with the goal of Doppler Imaging. …rather hot (11600K), hence, I have no hope that we might discover rapid pulsation - but who knows…'

Claire M.

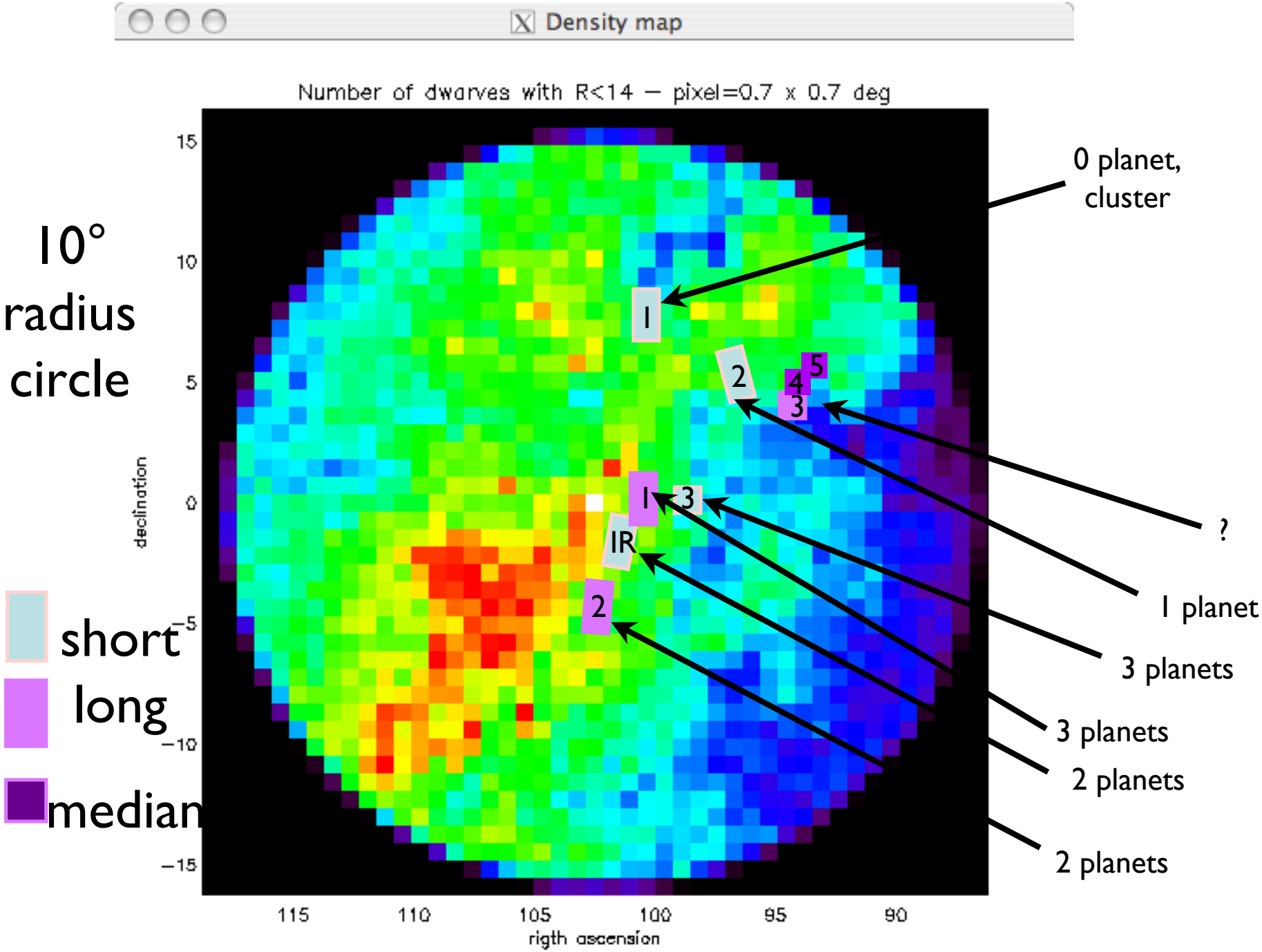
anticenter fields

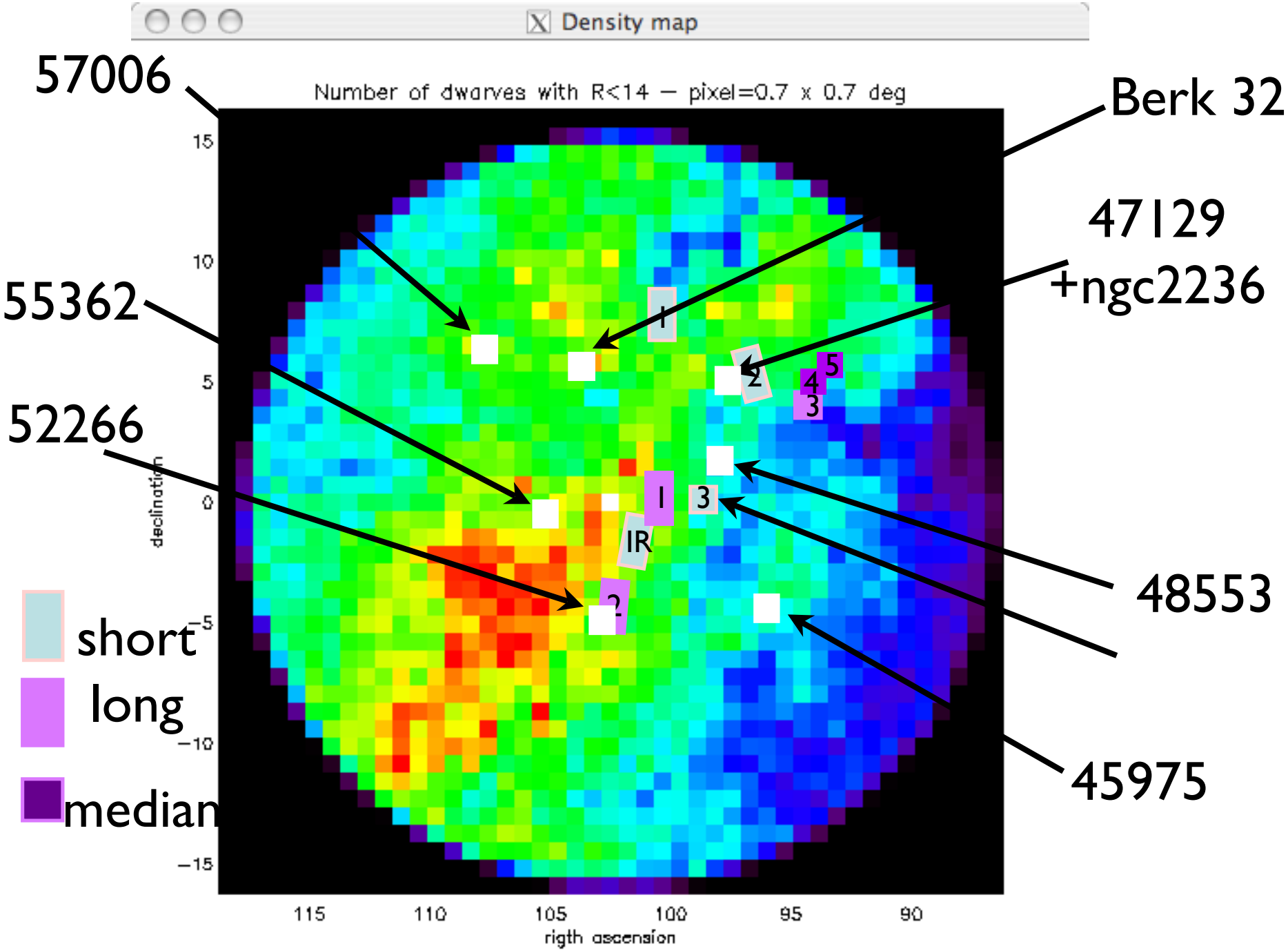
field name	dw r<16	nb planets
SRa03	4270	3!
SRa01	5750	0
SRa02	5550	1
LRa03	6300	0!
LRa02	6380	2
IRa01	7400	2
LRa01	8200	4
LRa04/5	6000	-

(per ccd)

field name	dw r<16
40726	1181
42807	3261
46241	4612
43023	3918
47220	4614
46150	4832
46573	4861
47278	4254
46886	4459
47240	4294
47278	4254
45975	5672
48553	5678 close to SRa03! (good region apparently)
47129	6282
57006	6352
NGC 2236	7200
52266	7451 overlaps LRa02
corot7b	8049
Berkeley 32	8223
55362	8851 contamination?

not enough stars!


Density map
Number of dwarves with R<14 — pixel=0.7 x 0.7 deg
10° radius circle
short
long
median
declination
rigth ascension
15
10
5
0
−5
−10
−15
115
110
105
100
95
90
1
2
5
4
3
1
3
IR
2
0 planet, cluster
?
1 planet
3 planets
3 planets
2 planets
2 planets


Density map
Number of dwarves with R<14 — pixel=0.7 x 0.7 deg
57006
Berk 32
47129
+ngc2236
55362
52266
48553
45975
short
long
median
declination
rigth ascension
15
10
5
0
−5
−10
−15
115
110
105
100
95
90
1
2
5
4
3
1
3
IR
2

stellar density:

avoid yellow, red, dark blue regions in maps

non-covered «green/light blue» regions are all of potential interest

preference for 48553, 57006, Berk 32 among sismo fields

Corot7:

a HARPS proposal for reobserving corot7 has been put in (results in July); if successful, simultaneous corot observations would be a strong plus