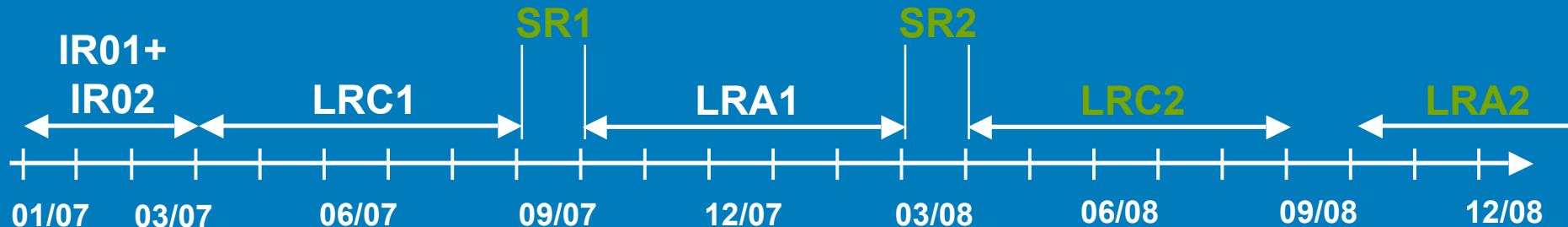


Field evaluation – CW10



- Initial Runs: IR01 and IR02 accepted at CS18 (April 5-6 2006)
- Long Runs:
 - LRC1 + LRA1 accepted at CW9 (ESTEC)
 - LRC2: around HD171834 as discussed and proposed by SWG, accepted by ECO and CS (CS18), **preliminary position and target proposal to be made at CW10**
 - LRA2: position and targets discussed and proposed by SWG, **to be confirmed by ECO and accepted by SC19**
- Short Runs: **need proposals in the (eastern) centre dir.!**
- Anticentre: several proposals discussed among SWG
- Centre: field HD183324 (lambda Boo star)

Field evaluation – CW10

Initial Runs

- Initial Runs: IR01 and IR02 accepted at CS18 (april 5-6 2006)

Information available at <http://www.lesia.obspm.fr/~corotswg/>

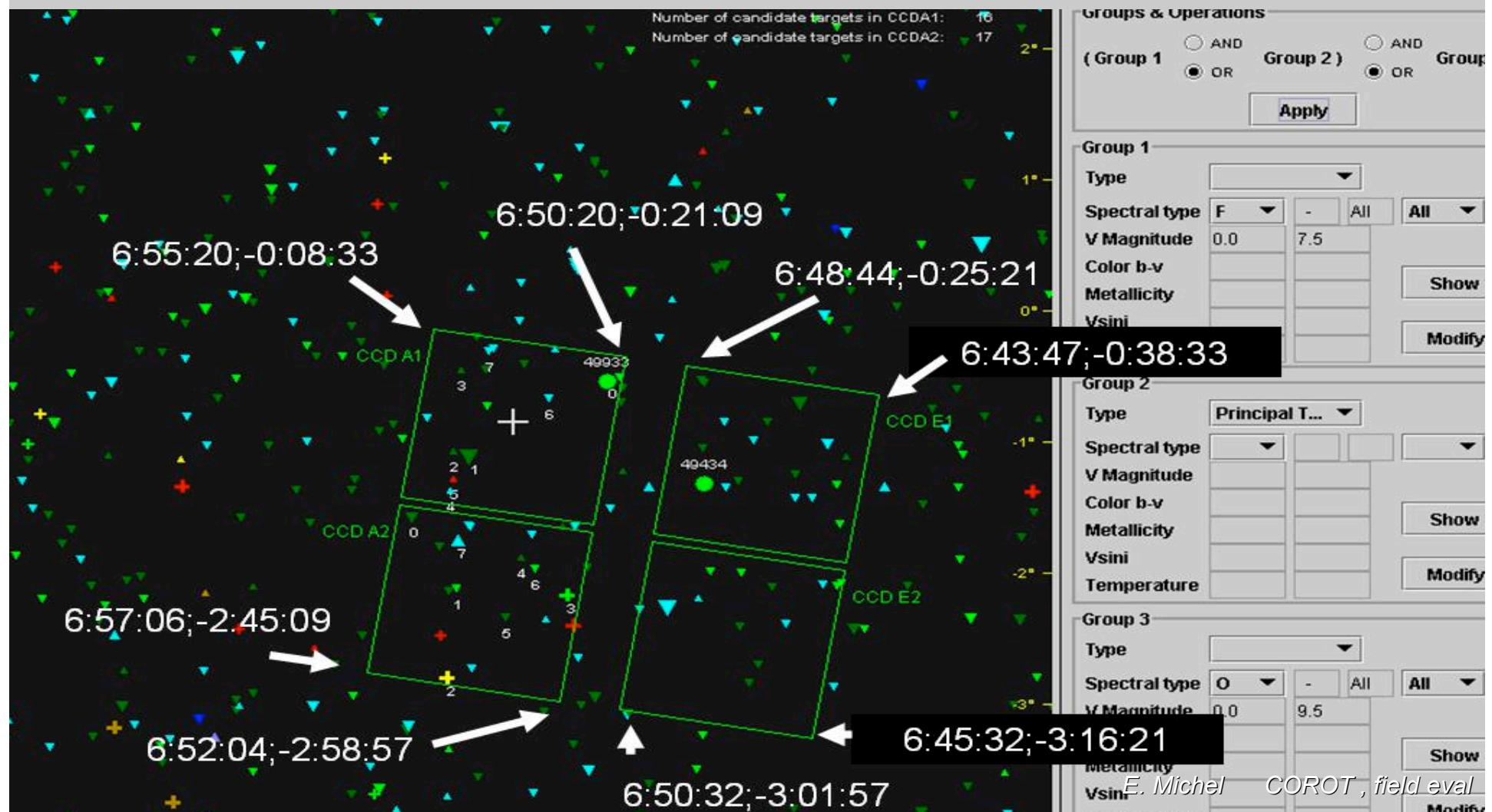
At most 90 days for IRs in the anticentre direction:

- IR01 (best field) between 30 and 60days
- IR02 30 days

Fields evaluation – CW10

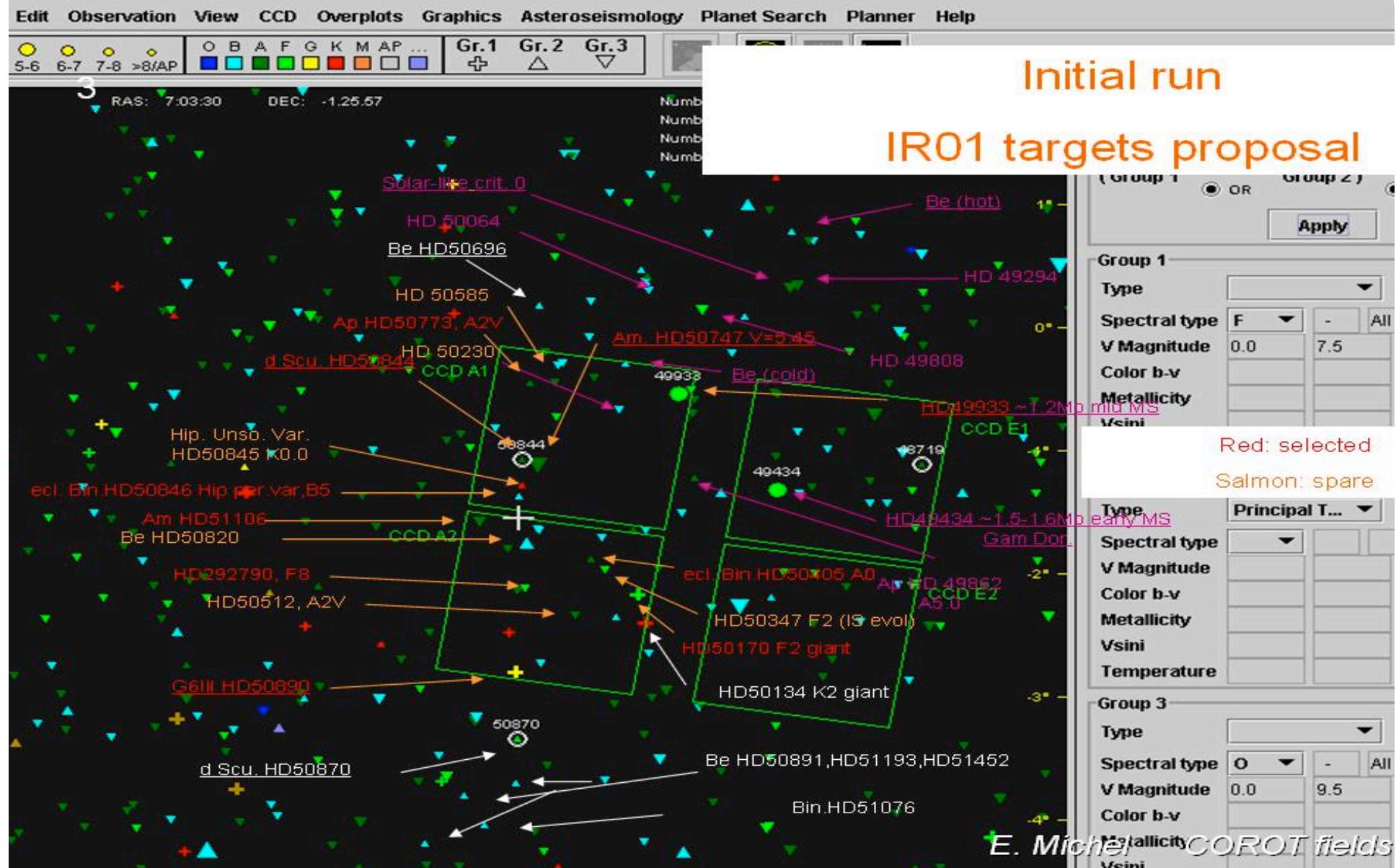
Initial Run IR01

RA:6:50:25 (102.60) DEC:-1.42.00 ROT(deg):14.96 ROLL(DEG):9.60



Fields evaluation – CW10

Initial Run IR01



Fields evaluation – CW10

Initial Run IR01

RA:6:50:25 (102.60) DEC:-1.42.00 ROT(deg):14.96 ROLL(DEG):9.60

Asteroseismology Pro...

Block: IREMO1bis Id: 1329.4 Last update: 2006-04-20 12:19:38
Catalogue: Non-specified User: michele Current date: 2006-05-31 16:55:26
Creation date: 20/04/2006

CCD A1										
Priority	C Id	Name	m_V	SpT	M_V	log(Teff)	$V\sin(i)$	Parallax	Star type	SCAO
0	20	HD 49933	5.77	F 2.0 V	3.39	3.81	10.9	33.45	Principal Target	X
1	116	HD 50747	5.45	A 4.0 IV	-3.43	3.89		6.73		X
2	123	HD 50844	9.1	A 2.0	1.31	3.88	64.2		Delta Scuti	
3	83	HD 50773	9.36	A 2.0	1.75	3.93			Ap star	
4	156	HD 50846	8.2	B 5.0	-3.37	4.23		0.87	Eclipsing binary, Hipparcos periodic variable, Binary	X
5	145	HD 50845	8.12	K 0.0	0.8	3.69		2.92	Hipparcos unsolved variable	X
6	44	HD 50230	8.95	B 3.0	1.34	4.03	22.6			
7	57	HD 50583	8.28	B 9.0	0.67	4.05		0.52		X
8										
9										

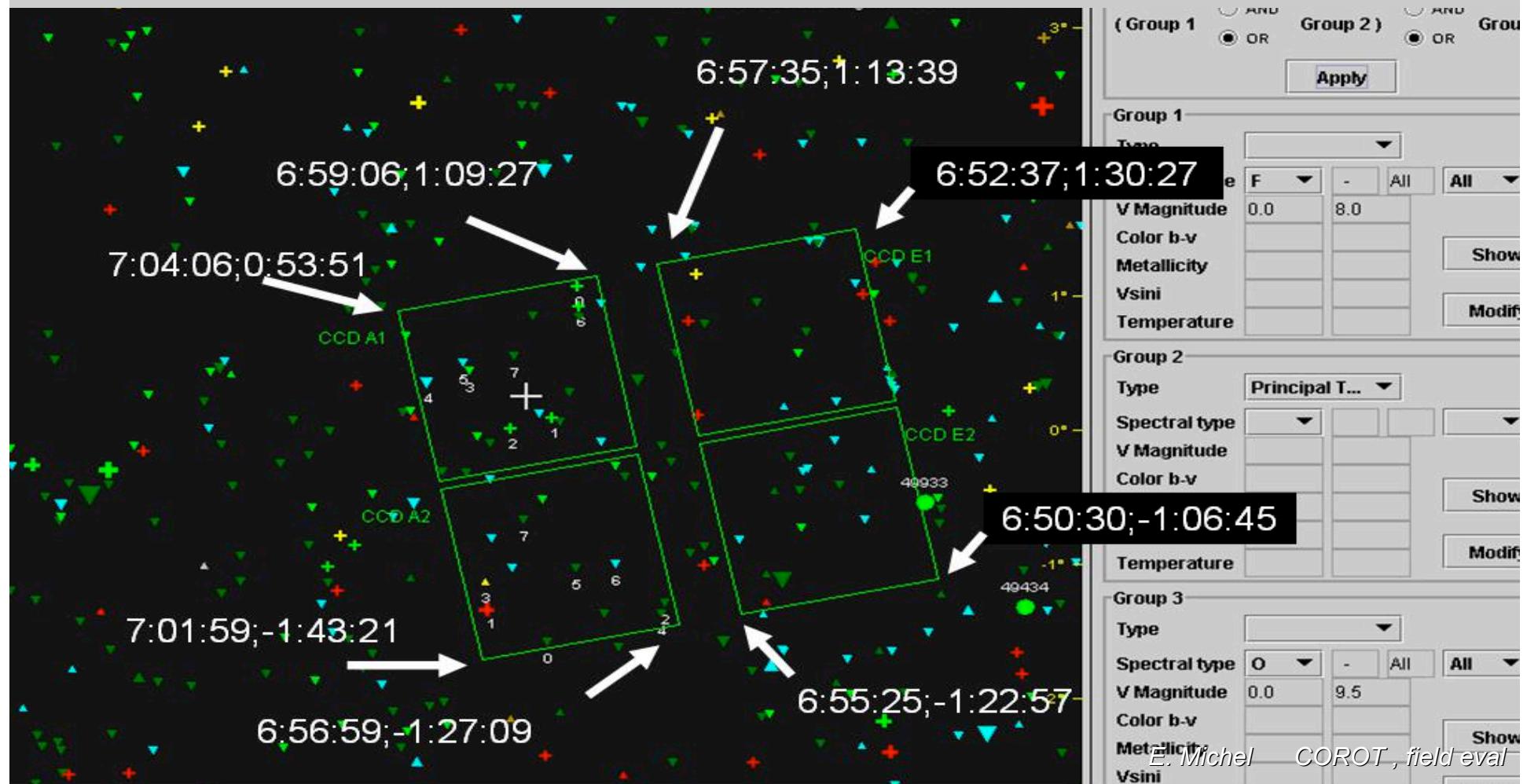
CCD A2										
Priority	C Id	Name	m_V	SpT	M_V	log(Teff)	$V\sin(i)$	Parallax	Star type	SCAO
0	214	HD 51106	7.36	A 3.0	1.53	3.9		5.14		X
1	263	HD 292790	9.48	F 8.0	1.87	3.81				
2	400	HD 50890	6.04	G 6.0 III	6.92	3.67	12.8	2.59		
3	223	HD 50170	6.82	F 2.0	-6.84	3.82	10.5	1.45		X
4	187	HD 50405	9.32	A 0.0	1.71	4.01			Eclipsing binary	
5	277	HD 50512	9.47	A 2.0	1.86	3.93				
6	196	HD 50347	9.0	F 2.0	-1.95	3.81				
7	204	HD 50820	6.21	B 3.0 IV	-7.19	4.37		0.71	Be star	X
8										
9										

E. Michel COROT , field eval

Fields evaluation – CW10

Initial Run IR02

RA:6:57:18 (104.32 degdecim) DEC:-0.06.36 ROT(deg):-6.24 ROLL(deg):-11.60



Fields evaluation – CW10

Initial Run IR02

RA:6:57:18 (104.32 degdecim) DEC:-0.06.36 ROT(deg):-6.24 ROLL(deg):-11.60

Block: IRnorthsearch3	Id: 1376.4	Last update: 2006-04-20 13:48:41
Catalogue: Non-specified	User: michele	Current date: 2006-05-31 16:59:41
		Creation date: 20/04/2006

CCD A1

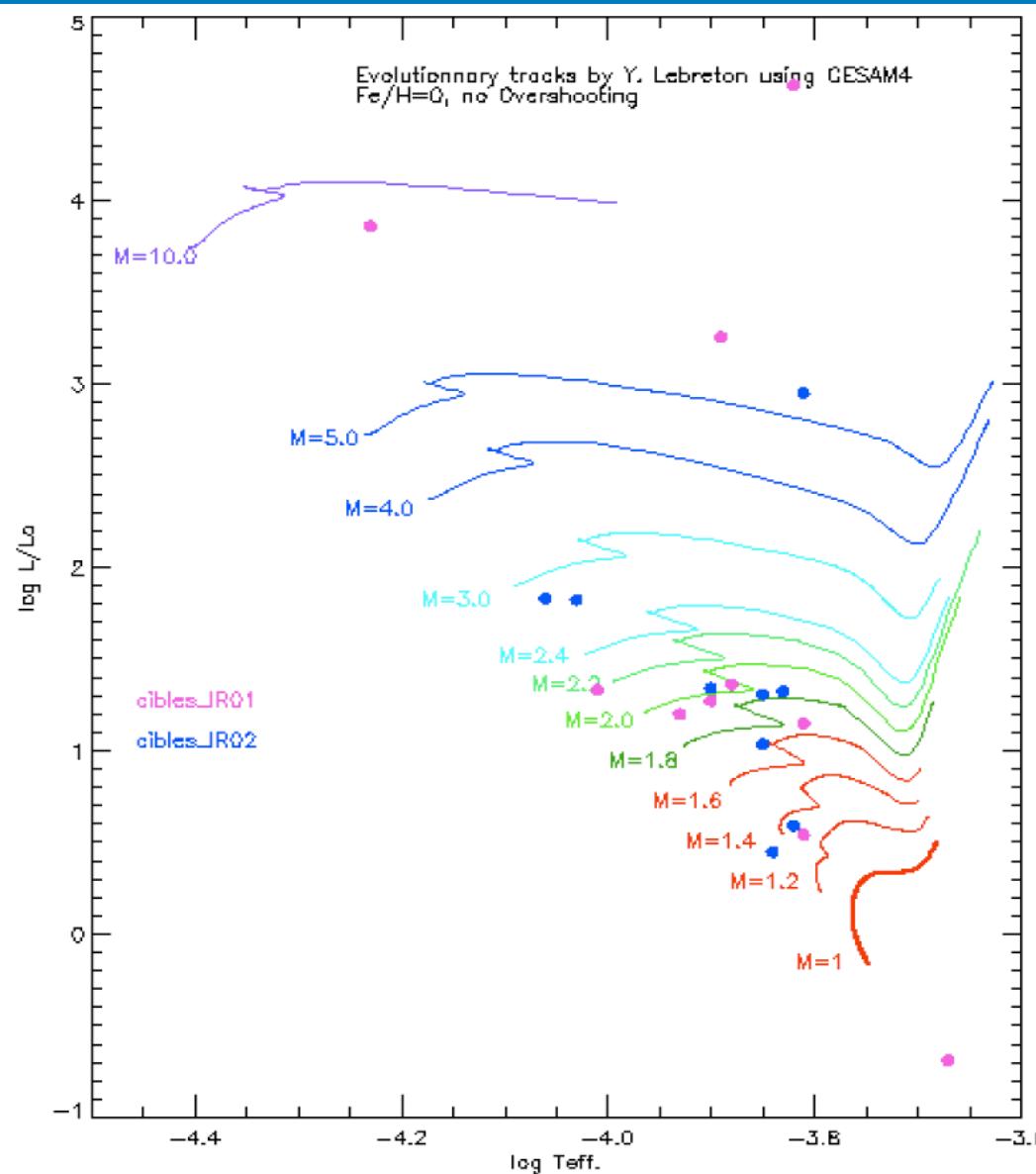
Priority	C Id	Name	m_v	SpT	M_v	log(Teff)	$Vsin(i)$	Parallax	Star type	SCAO
0	305	HD 52010	7.93	F 5.0	1.42	3.83	59.4			X
1	294	HD 52185	7.63	F 0.0	2.13	3.85		7.61		X
2	343	HD 52431	7.58	F 5.0 V	3.26	3.82	14.6	13.68		X
3	413	HD 52689	8.22	F 5.0	3.6	3.84				X
4	480	HD 53004	7.26	B 9.0	0.72	4.06	54.0	5.84		X
5	422	HD 293039	9.35	B 3.0 III	1.74	3.93				
6	292	HD 51956	7.52	F 8.0 I	6.71	3.75	24.0	1.37		X
7	357	HD 52408	8.1	A 0.0	0.49	4.0				X
8										
9										

CCD A2

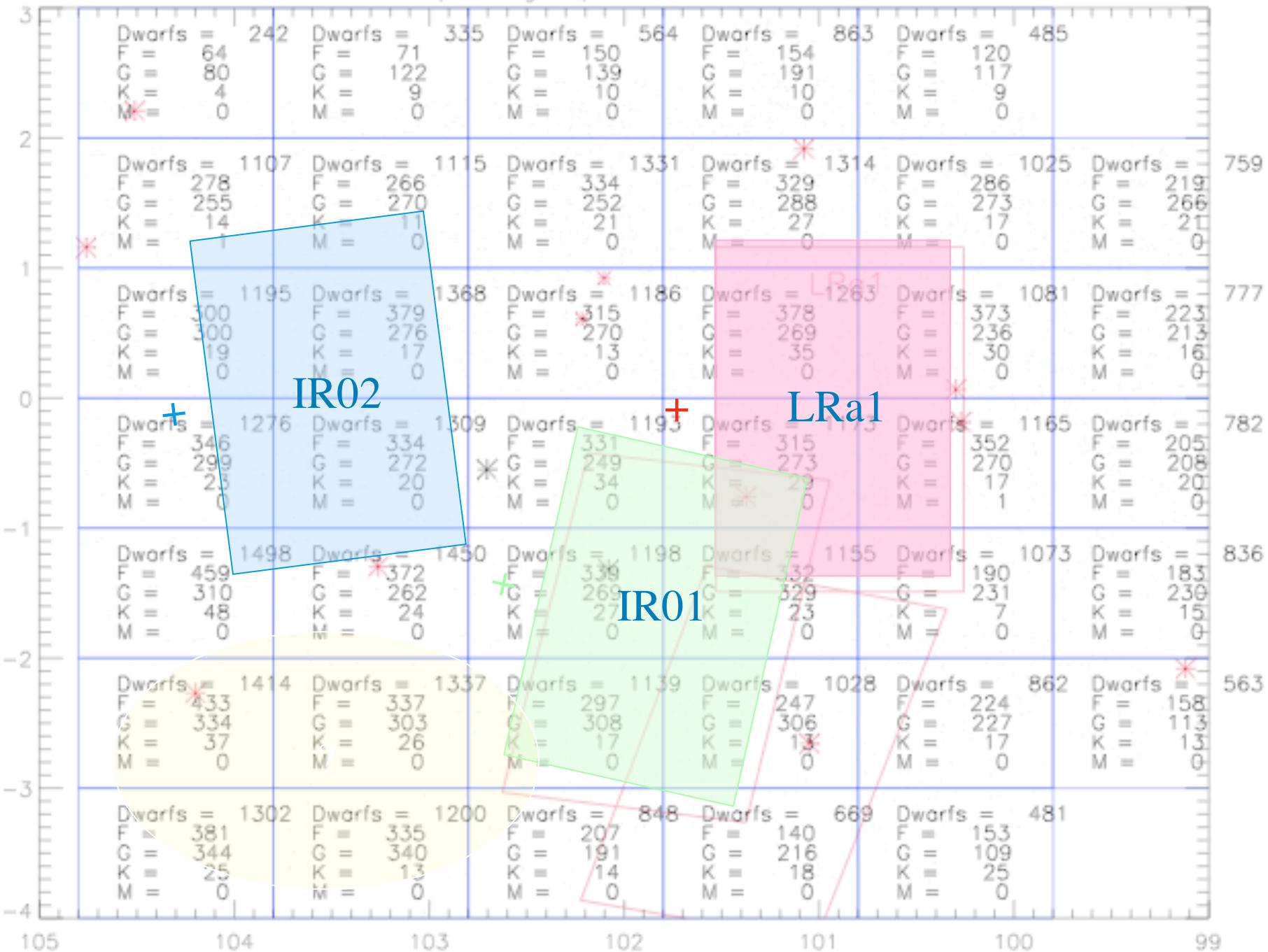
Priority	C Id	Name	m_v	SpT	M_v	log(Teff)	$Vsin(i)$	Parallax	Star type	SCAO
0	392	HD 52239	9.06	A 5.0	1.45	3.85				
1	443	HD 52611	6.17	K 0.0	0.6	3.59		7.69		X
2	231	HD 51451	8.97	A 3.0	1.36	3.9				
3	426	HD 52610	8.52	G 0.0	-2.63	3.81		3.43	Hipparcos periodic variable	
4	241	HD 51473	8.19	A 0.0	0.58	4.03		2.8		X
5	304	HD 52045	8.72	A 0.0	1.11	3.94				
6	251	HD 51782	8.94	B 8.0 V	1.33	4.07				
7	344	HD 52379	8.1	A 2.0	0.9			3.63		X
8										
9										

Fields evaluation – CW10

Initial Run IR01+IR02



number of dwarfs R = <15 per deg. sq. contd < 10%



Field evaluation – CW10

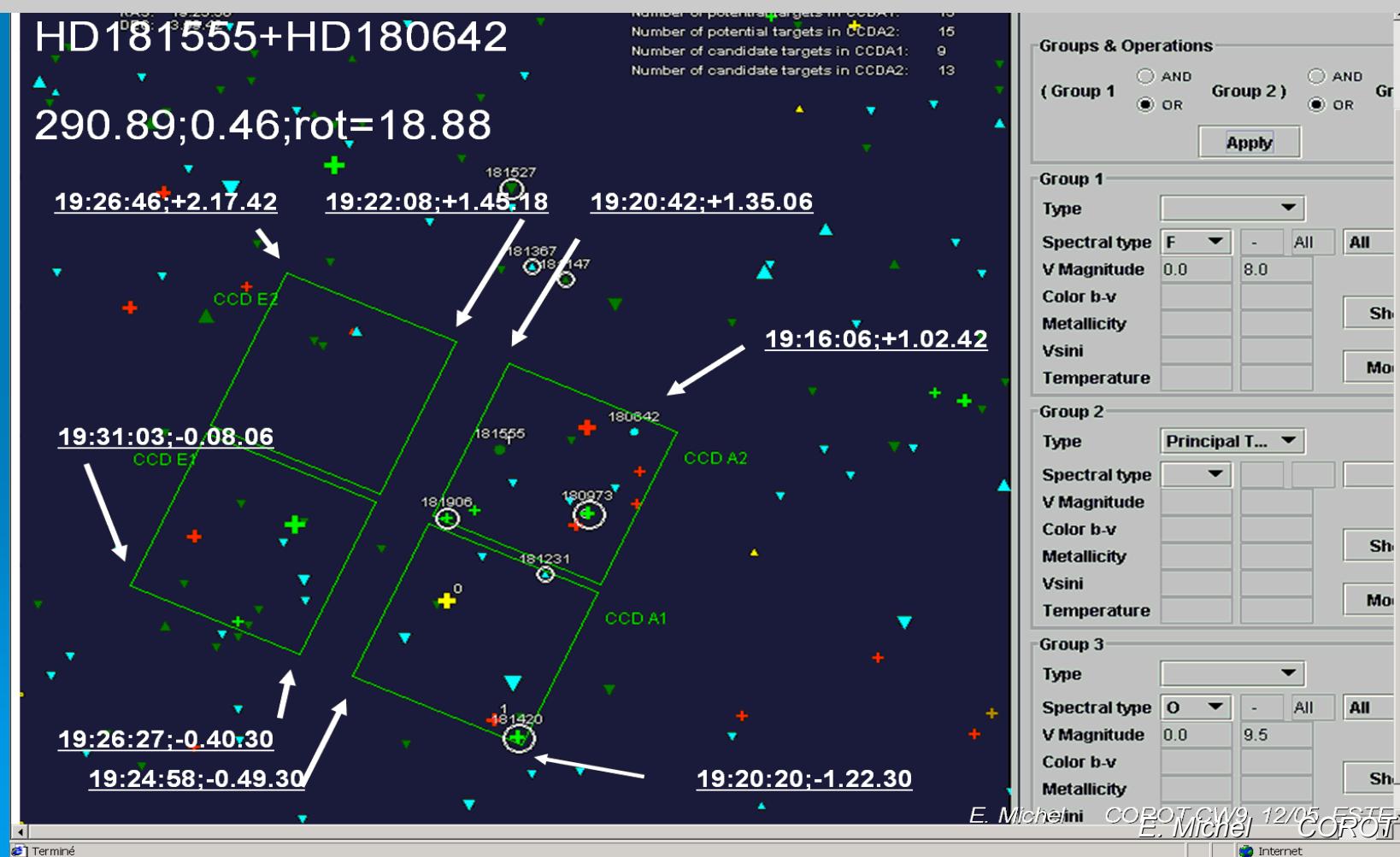
Long Runs

- LRC1 + LRA1 accepted at CW9 (ESTEC)
- LRC2: around HD171834 as discussed and proposed by SWG, accepted by ECO and CS (CS18), **preliminary position and target proposal to be made at CW10**
- LRA2: position and targets discussed and proposed by SWG, **to be confirmed by ECO and accepted by SC19**

Fields evaluation – CW10

Long Run LRC1

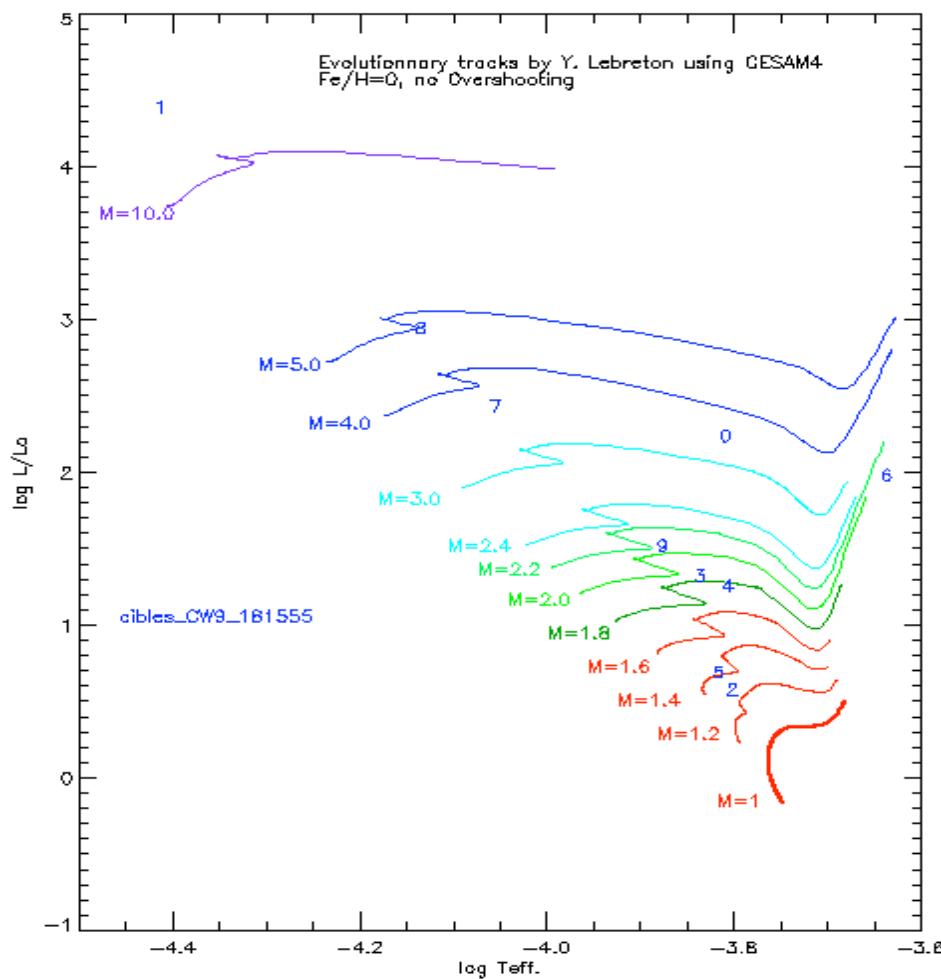
RA=290°.89 DEC=+0°.46 Roll= +18°.88



Fields evaluation – CW10

Long Run LRC1

RA=290°.89 DEC=+0°.46 Roll= +18°.88



LRC1: targets list 18/01/06

CCDA1:

HD	log Teff	mV	Mv	Vsin <i>i</i>	SCAO	Sp.Type	comment
5 181420	3.820	6.57	3.100	21		F2.0	solar-like crit.2
6 181907	3.640	5.83	0.600	X		G8.0III	
7 182198	4.060	7.94	-0.65	25	X	B9.0V	
8 181231	4.140	8.69	-1.47			B9.0V	Be
9 181390	3.880	8.64	1.0300			A0.0	end-MS

complementary targets-----

181991	3.86	8.86	1.25			A2.0	end-MS
181690	3.92	9.03	1.42			B9.0V	
181440	4.05	5.49	-0.35	56	X	B9.0III	

CCDA2:

HD	log Teff	mV	Mv	Vsin <i>i</i>	SCAO	Sp.Type	comment
0 181555	3.81?	7.52?-0.72?		X		A5.0	d Scu. Ppal Cand
1 180642	4.42	8.27	-3.47	X		B1.5III-III	Beta Cephei Ppal cand
2 181906	3.805	7.65	3.39	18		F8.0	solar-like crit.0
3 181072	3.840	9.14	1.53			A2.0	MS
4 180973	3.810	6.74	1.71	130	X	F0.0	end-MS

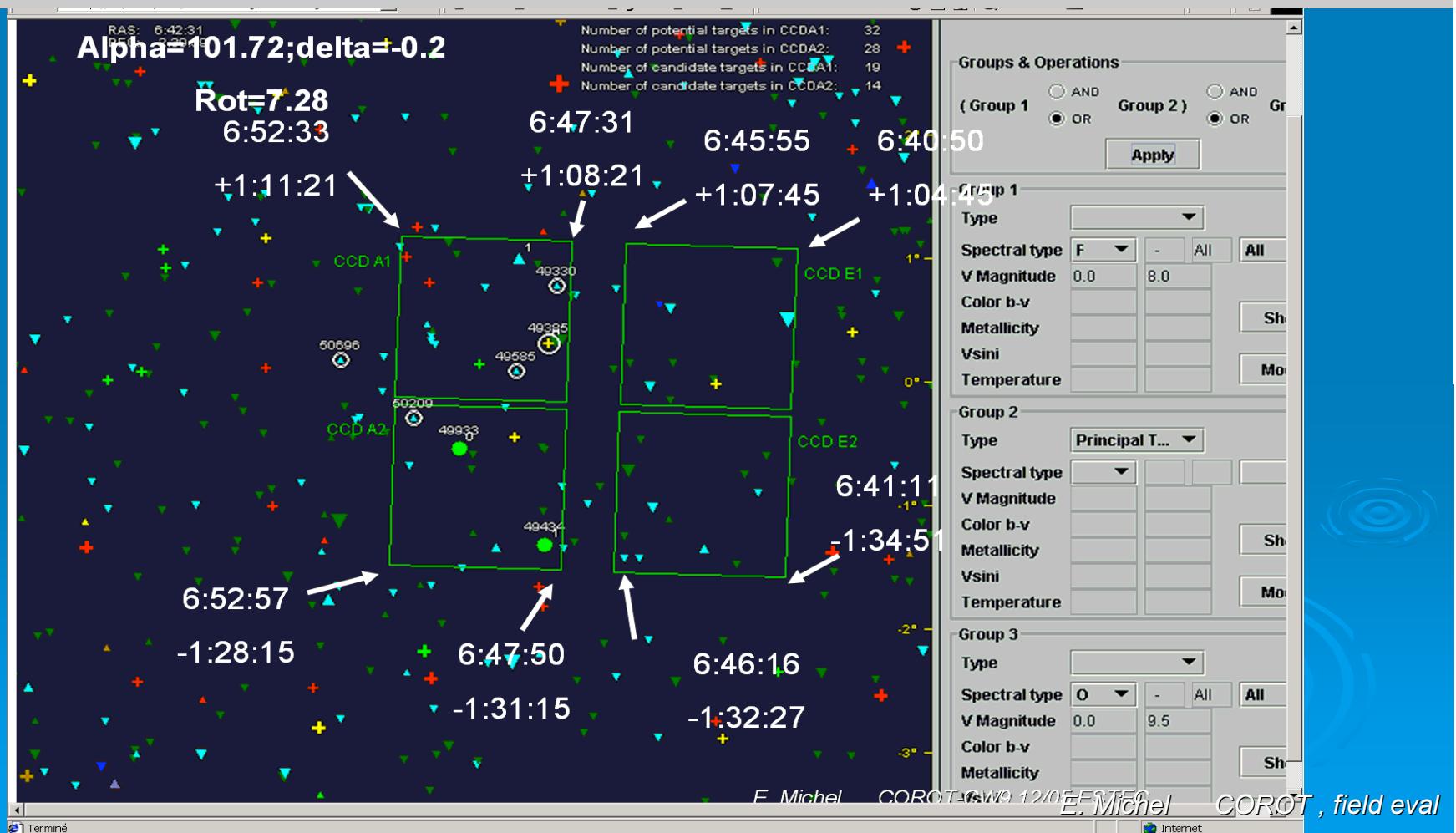
complementary targets-----

181439	3.88	8.97	2.22	45		F0.0	mid-MS
181732	3.7	7.66	0.87			F5.0	off-MS
180622	3.68	7.63	1.14			K2.0	

Fields evaluation – CW10

Long Run LRA1

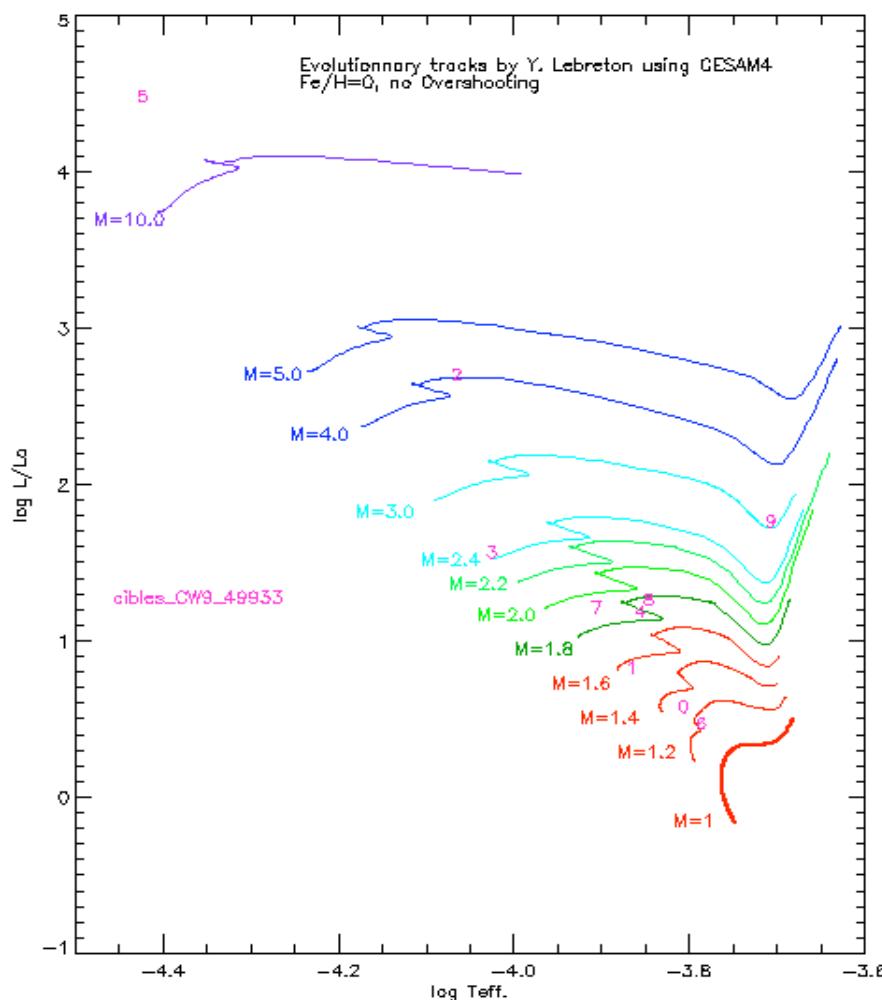
RA=101°.72 DEC=-0°.2 Roll= +7°.28



Fields evaluation – CW10

Long Run LRA1

RA=101°.72 DEC=-0°.2 Roll= +7°.28



LRA1: targets list 18/01/06

CCDA1:

HD	log Teff	mV	Mv	Vsin <i>i</i>	SCAO	Sp.Type	comment
5 49330	4.43	8.88	-3.66	210		B0.0	Be
6 49385	3.790	7.89	3.670	7.5	X	G0.0	
7 49294	3.91	7.0	1.79	111	X	A2.0	
8 49808	3.850	7.98	1.670	114		F0.0V	
9 50064	?3.71?	8.29	?0.68?	41	X	B6.0 I	

complementary targets-----

49585	3.96	9.06	1.45			B0.5V	Be
49431	3.95	9.35	1.74			A2.0	
49567	4.19	6.15	-3	72	X	B3 III	Hipp. uns. Var.

CCDA2:

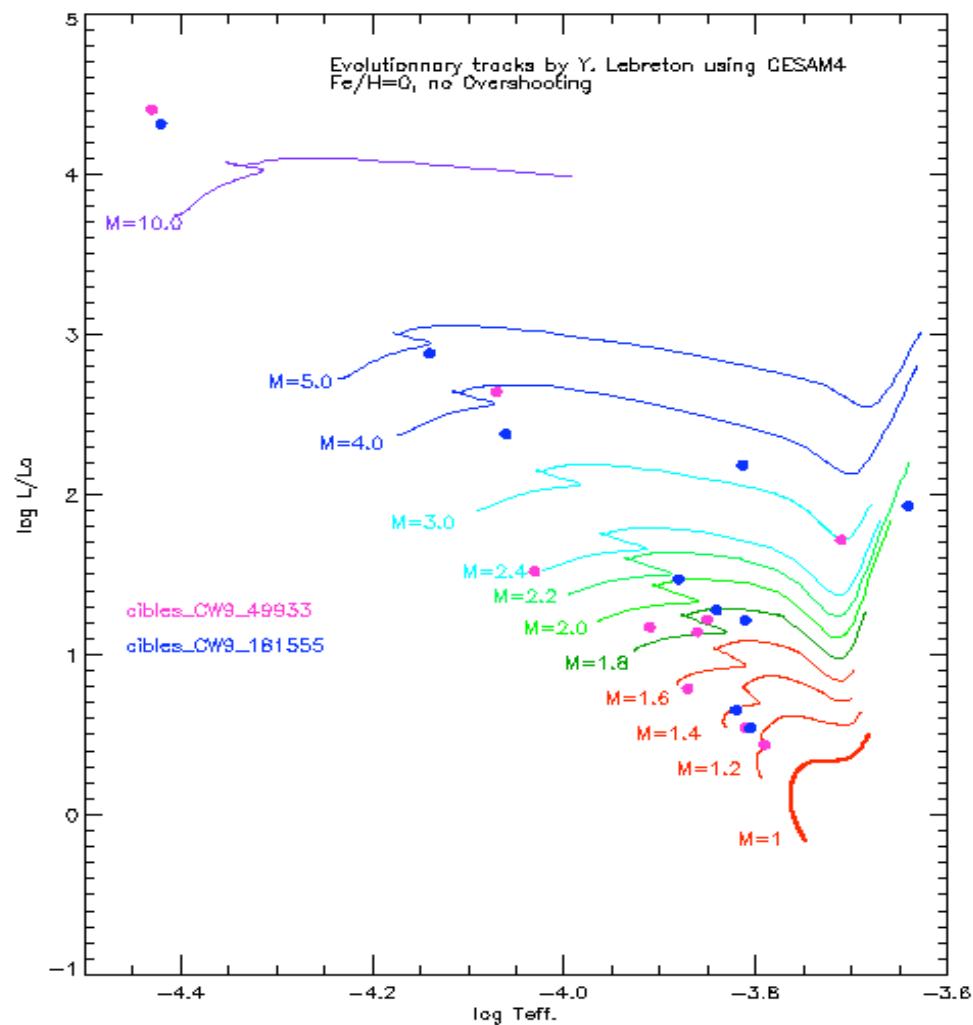
HD	log Teff	mV	Mv	Vsin <i>i</i>	SCAO	Sp.Type	comment
0 49933	3.81	5.77	3.3900	11	X	F2.0V	Ppal cand
1 49434	3.87	5.75	2.7400	89	X	F1.0V	Gam Dor Ppal cand
2 50209	4.07	8.39	-1.2600	200	X	B9.0V	Be
3 50230	?4.03?	8.95	?1.34?	23		B3.0	
4 49862	3.86	9.47	1.86			A5.0	Ap

complementary targets-----

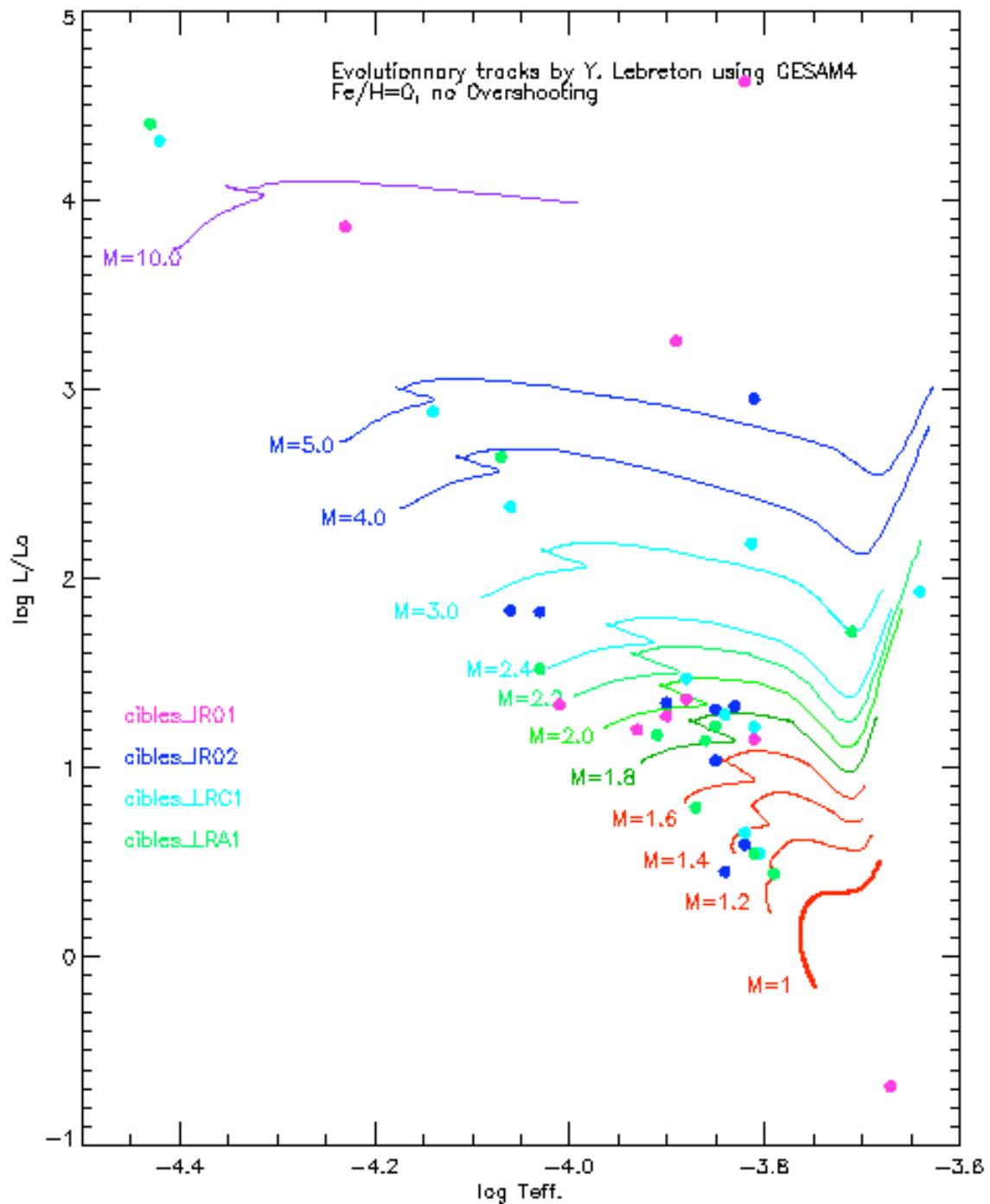
49432	3.82	9.47	1.86			A5.0	
49433	3.96	9.13	1.52			A0.0	
49713	4.09	7.32	0.6	50	X	B9.0	Ap

Fields evaluation – CW10

Long Runs LRC1+LRA1



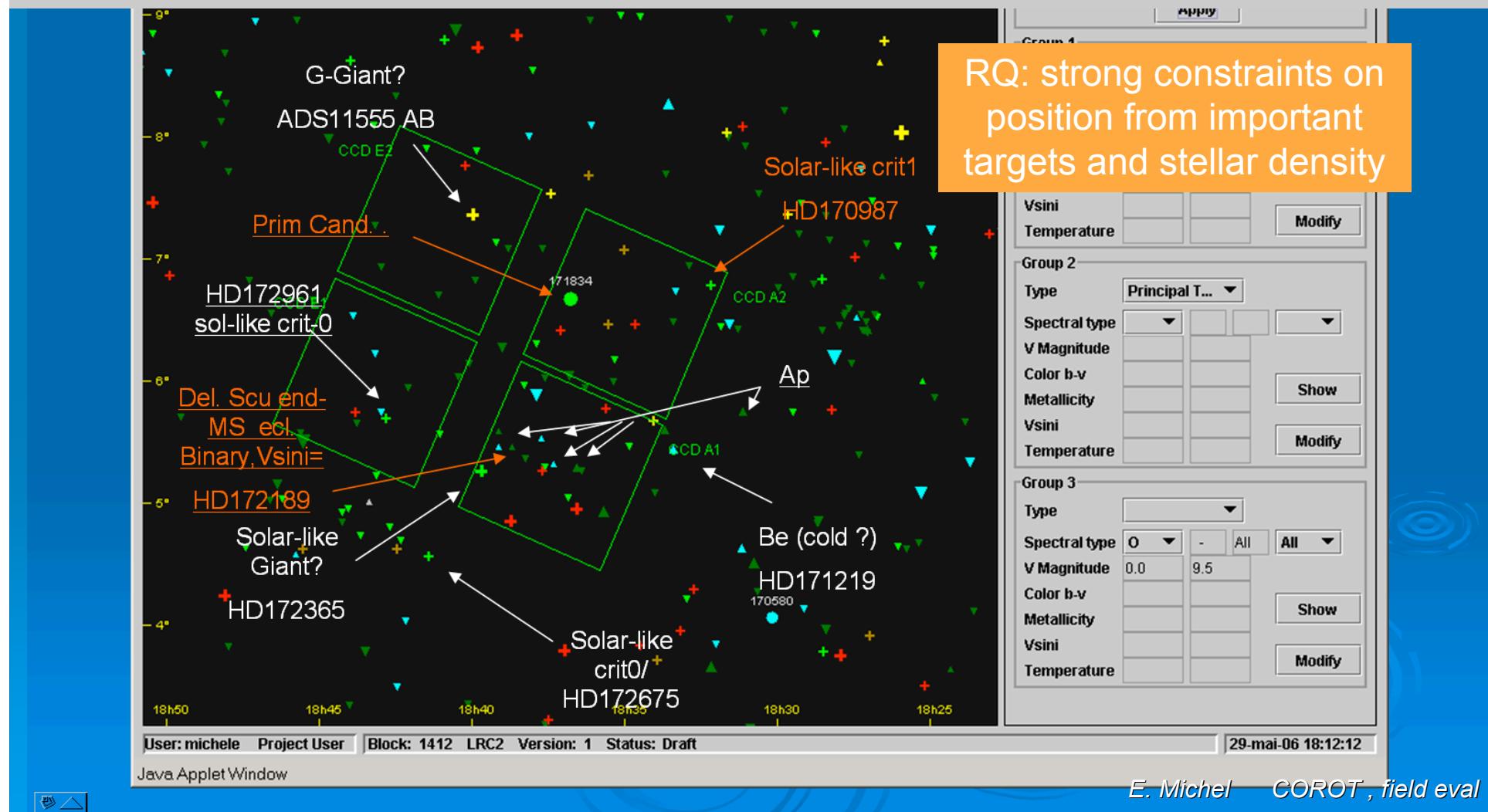
IR01+IR02+ LRc1+LRa1



Fields evaluation – CW10

Long Run LRC2

RA=18:39:03 (279.762 °) DEC=+6 16 12 (6.27 °) ROT= 18.24 ° ROLL= 23.60 °
proposal



Fields evaluation – CW10

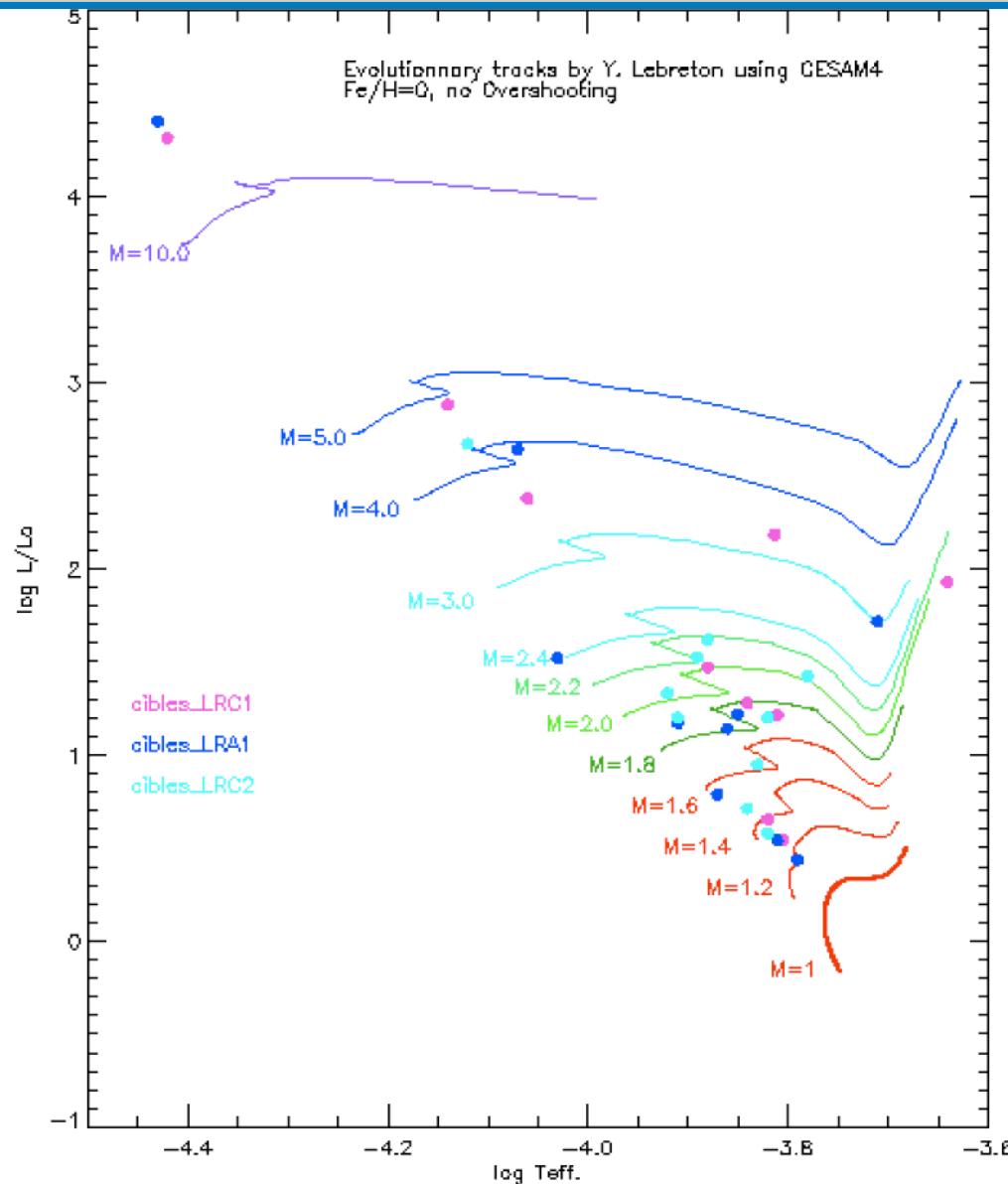
Long Run LRC2

with this proposed position, we could get the following selection

Block: LRC2 Id: 1412.3 Last update: 2006-05-29 16:31:24
Catalogue: Non-specified User: michele Current date: 2006-05-30 17:39:41
Creation date: 29/05/2006

Fields evaluation – CW10

Long Run LRC1+LRA1+LRC2

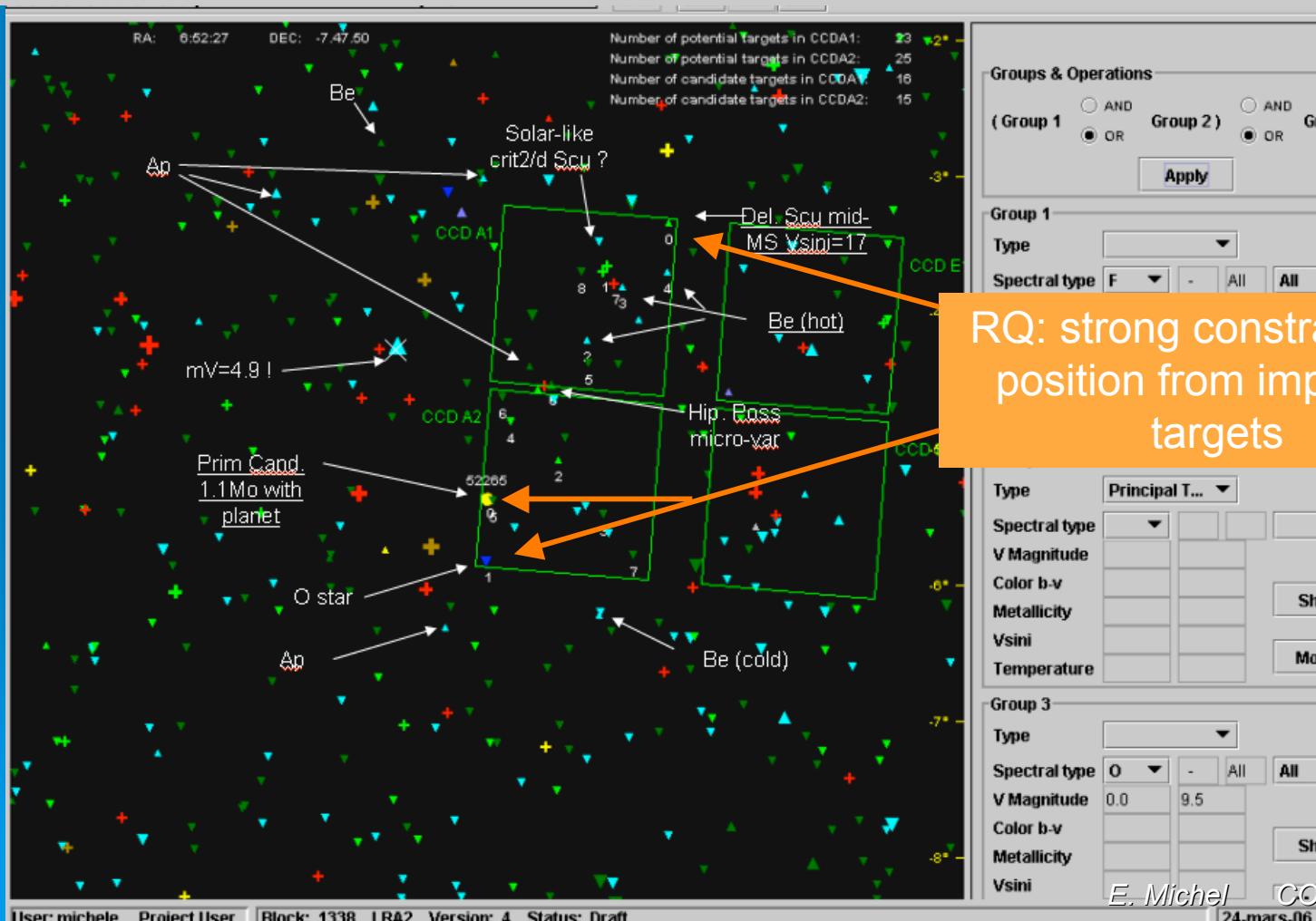


Fields evaluation – CW10

Long Run LRA2

RA=6:54:20 (103°.583) DEC=-4°.39 ROT=10° Roll= +4.64°

proposal



RQ: strong constraints on
position from important
targets

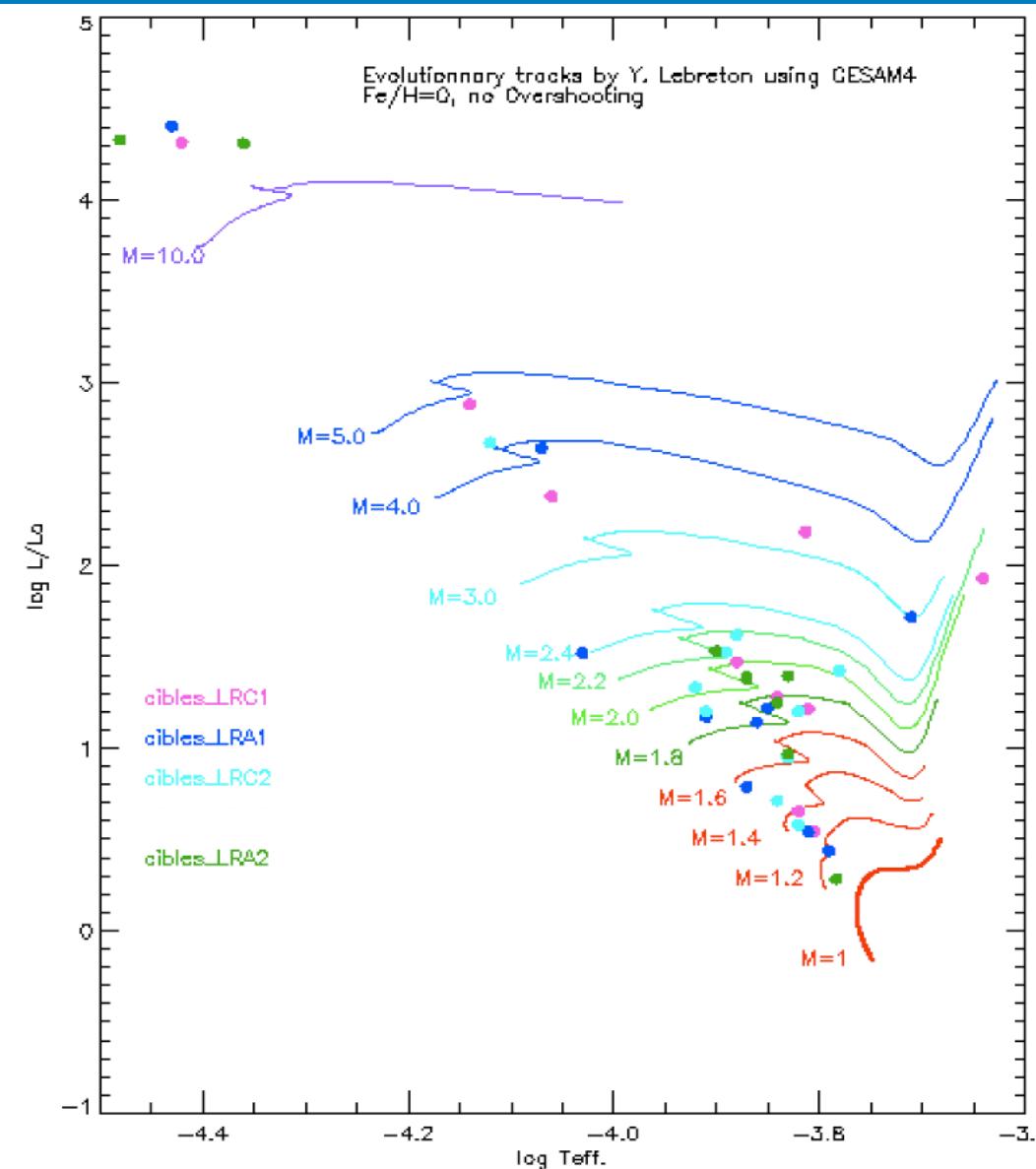
Fields evaluation – CW10

Long Run LR2A

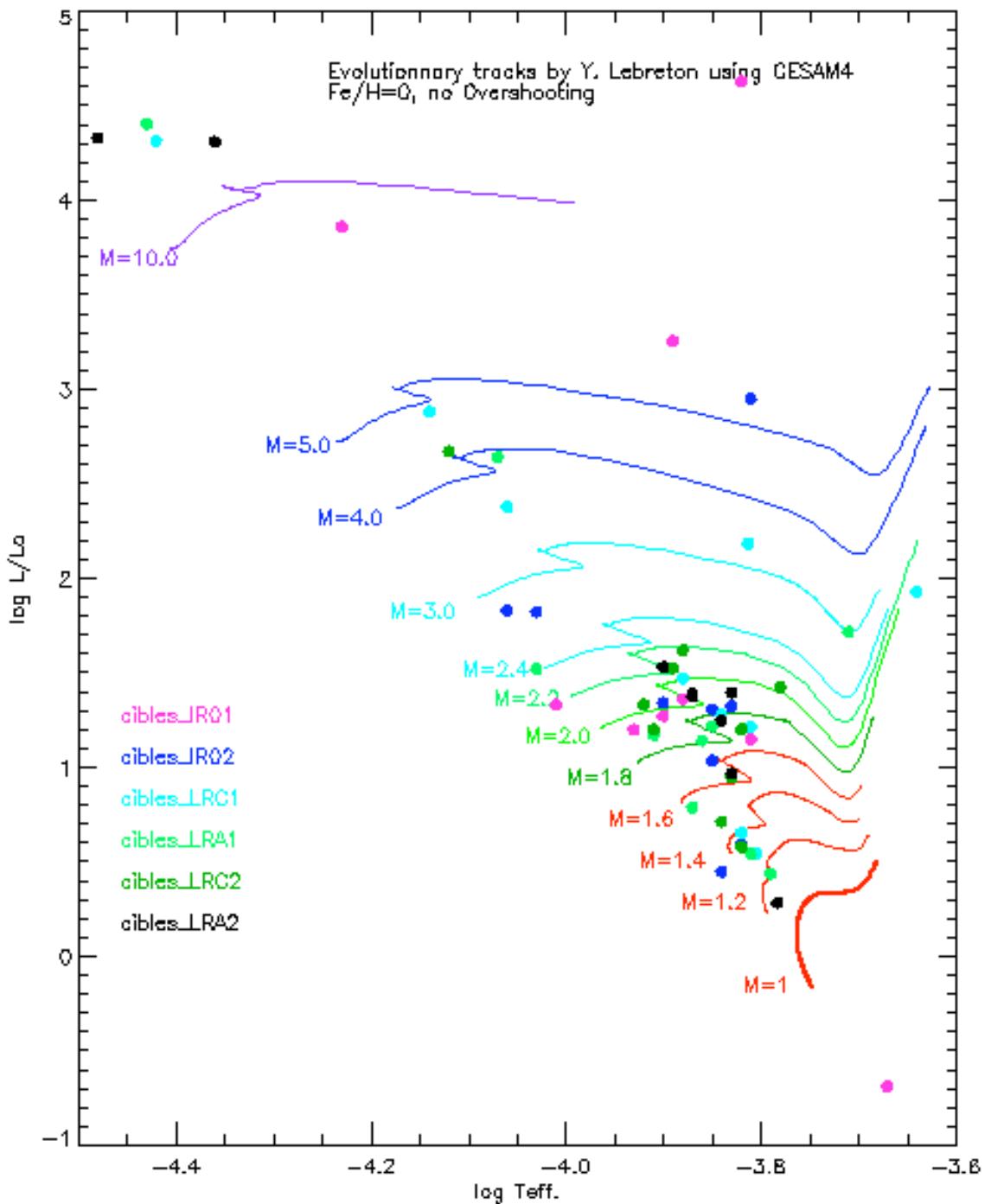
with this proposed position, we could get the following selection

Fields evaluation – CW10

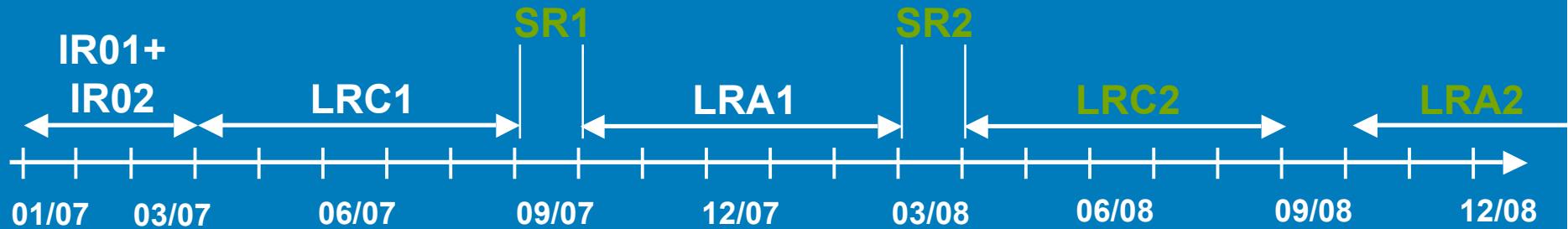
Long Run LRC1+LRA1+LRC2+LRA2



all up to
LRa2



Short runs: core/additional programme



proposal

- 1st short run, centre direction: core programme
- 2nd short run, anticentre direction: additional programme

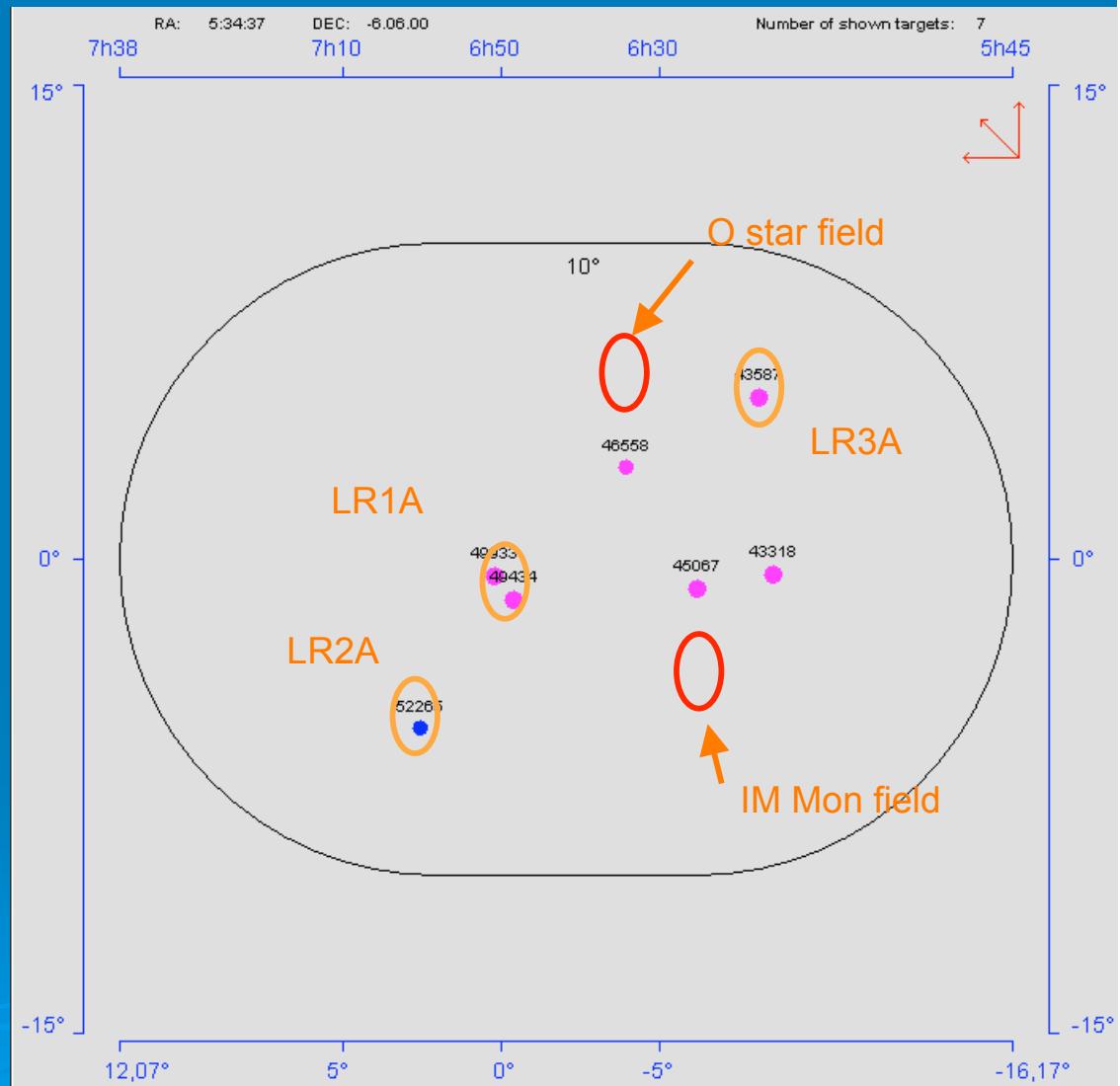
Short run evaluation process: CW10

Several proposals in discussion:

- ANTICENTRE: *mostly 'western' fields so far...*
 - Field with O stars (cf Conny Aerts, CW9 ESTEC)+ HD46375 K star with a planet (Add. Programme)
 - Field with IM Mon brightest beta Lyr ecl. binary in CoRoT eyes (involving potential a beta Cep and a SPB) + HD45168 bright G9III (cf Joris de Ridder)
 - ...
- CENTRE: *focusing on 'eastern' fields to be pointed before drift ...*
 - Field around HD183324 (lambda Boo star)
 - HD174166 (d Scu)+175337(G Dor)
 - ...

Short runs: Anticentre

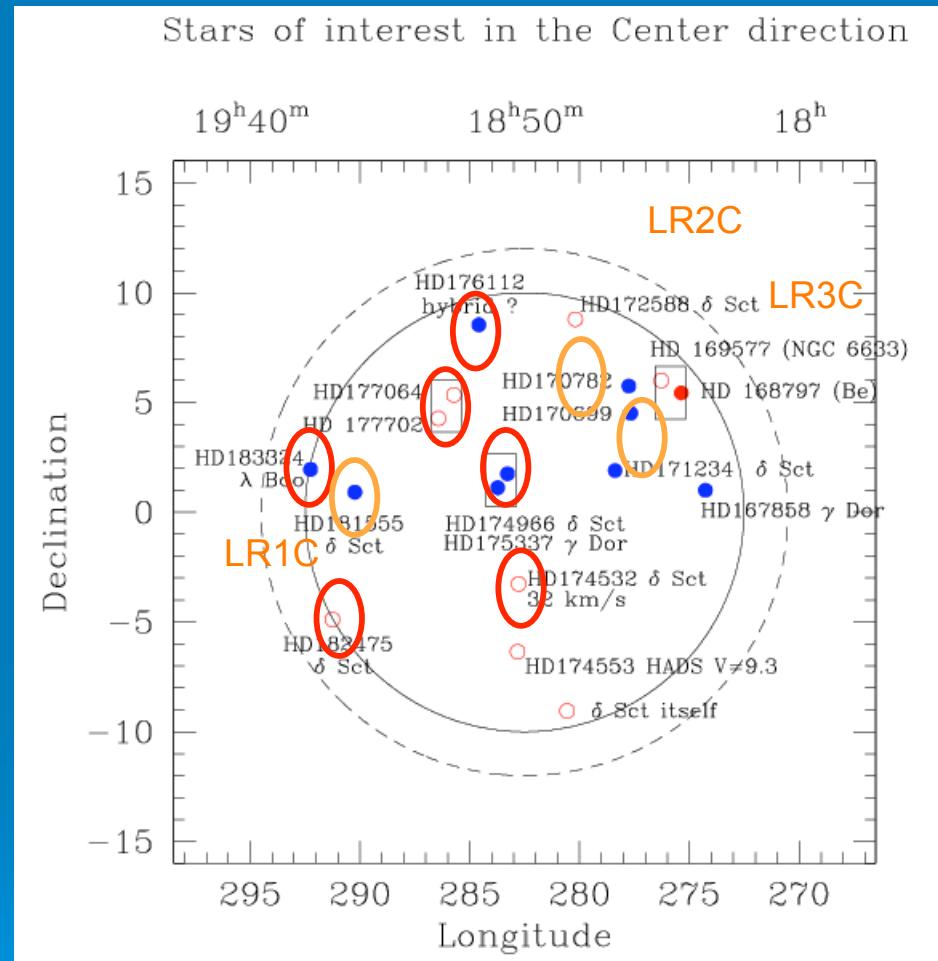
- mostly 'western' fields proposed

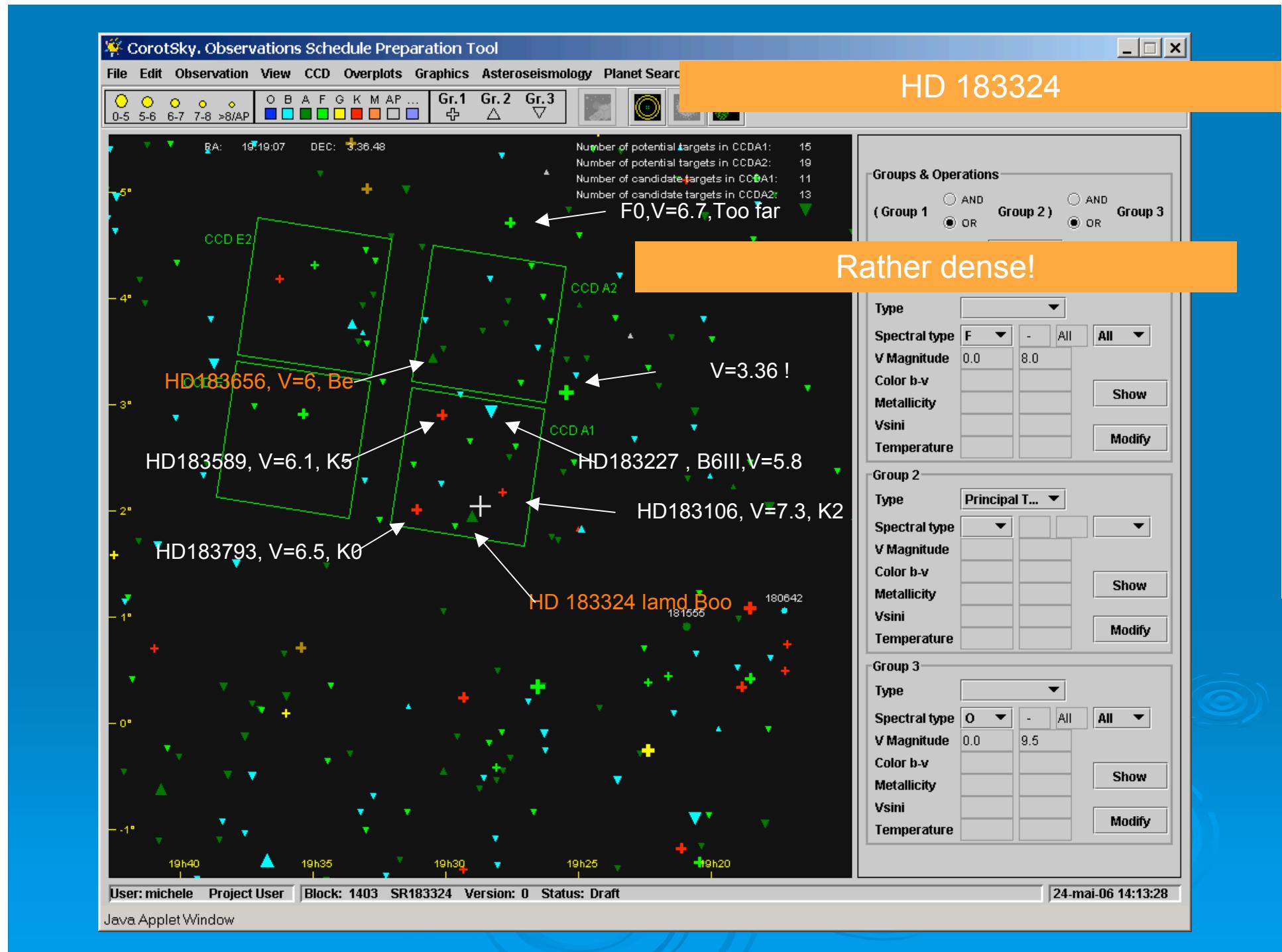


Short runs: Centre

- Starting with 'eastern' fields
- long run discarded candidates
- Selecting:
- F to M stars with $V < 8$
- stars with 'startype'
- O to F stars with $V < 9.5$

20d too short
for solar-type oscillations:
concentrate on hotter stars







Block: SR183324	Id: 1405.0	Last update:
Catalogue: Non-specified	User: michele	Current date: 2006-05-26 13:38:49
		Creation date:

CCDA1

Priority	C Id	Name	m _v	SpT	M _v	log(Teff)	Vsin(i)	Parallax	Star type	SCAO
0	9397	HD 183018	9.04	F 8.0	1.57	3.8				
1	9567	HD 183368	9.23	F 0.0	1.47	3.89				
2	9772	HD 183815	9.23	F 0.0	3.08	3.85				
3	9547	HD 183463	9.36	F 8.0	1.27	3.81				
4	9406	HD 183060	9.03	A 2.0	1.42	3.86				
5	9485	HD 183324	5.8	A 0.0 V	1.95	3.97	101.7	16.95	Delta Scuti, Lambda Bootis	X
6										
7										
8										
9										

CCDA2

Priority	C Id	Name	m _v	SpT	M _v	log(Teff)	Vsin(i)	Parallax	Star type	SCAO
0	9583	HD 182922	8.14	F 5.0	3.5	3.82				X
1	9483	HD 182834	9.3	F 8.0	1.69	3.77				
2	9427	HD 182766	8.89	F 6.0 V	5.99	3.79		3.66		
3	9448	HD 182994	9.46	F 2.0	0.33	3.85				
4	9610	HD 183086	8.19	A 0.0	0.58	3.99				X
5	9582	HD 183087	8.7	A 0.0	1.09	3.92		1.72		
6	9383	HD 182740	8.06	A 2.0	1.31	3.9		4.46	Hipparcos unsolved variable, Binary	
7	9661	HD 183265	8.0	A 0.0	0.88	4.02		4.85		X
8	9786	HD 183563	9.21	A 0.0	1.6	3.81				
9	9809	HD 183656	6.06	A 0.0	-5.11	4.24	275.0	3.39	Be star, Hipparcos unsolved variable	X



Other content HD 183324

[Astroseismology Pro...](#)

Block: SR183324	Id: 1405.2	Last update:
Catalogue: Non-specified	User: michele	Current date: 2006-05-26 13:47:36
		Creation date:

CCDA1

Priority	C Id	Name	m_v	SpT	M_v	$\log(\text{Teff})$	$V\sin(i)$	Parallax	Star type	SCAO
0	9524	HD 183227	5.84	B 6.0 III	-1.77	4.15	57.3	3.18		X
1	9641	HD 183590	9.21	B 9.0	1.6	3.95				
2	9715	HD 183589	6.08	K 5.0 I	7.34	3.62	9.4	1.96	Hipparcos unsolved variable	X
3	9399	HD 183105	7.26	K 2.0	0.13	3.47		3.75		X
4	9721	HD 183793	6.53	K 0.0	-0.91	3.53		3.25		X
5										
6										
7										
8										
9										

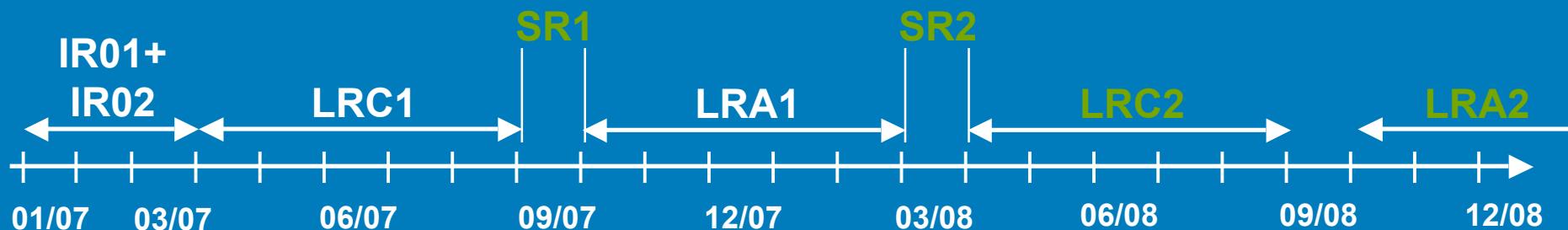
CCDA2

Priority	C Id	Name	m_v	SpT	M_v	$\log(\text{Teff})$	$V\sin(i)$	Parallax	Star type	SCAO
0	9731	HD 183226	9.04	B 9.0	1.43	3.98				
1	9878	HD 183734	8.41	B 5.0	0.8	3.98		1.14		
2	9432	HD 182844	8.39	B 8.0	0.78	3.98				X
3										
4										
5										
6										
7										
8										
9										

CCDA2



Conclusion – CW10



- LRC2: around HD171834 as discussed and proposed by SWG, accepted by ECO and CS (CS18), **preliminary position and target proposal to be made at CW10**
- LRA2: position and targets discussed and proposed by SWG, **to be confirmed by ECO and accepted by SC19**
- Short Runs:
 - 1st short run belongs to core programme, 2nd short run to AP
 - Anticentre: several proposals discussed among SWG
 - Centre: field HD183324 (lambda Boo star)