

Red Giants in a Corot Short Run

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Red Giant Team

Short Run Advantages

- 1) More freedom to choose the target
 - go for the best suitable SpT
 - advantage over secondary target in long run
- 2) Possibility to choose a **bright** target
 - high S/N ratio
 - advantage over target in exoplanet field
- 3) Easier to organise complementary ground-based obs
 - bright star, smaller telescope

Red Giants

- Late G and early K giants: confirmed solar-like oscillators
- Oscillation frequencies: < 200 microHz
- Frequency separations: < 20 microHz
- Peak amplitude: > 50 ppm
- Short run feasibility: OK!! (see CW7)

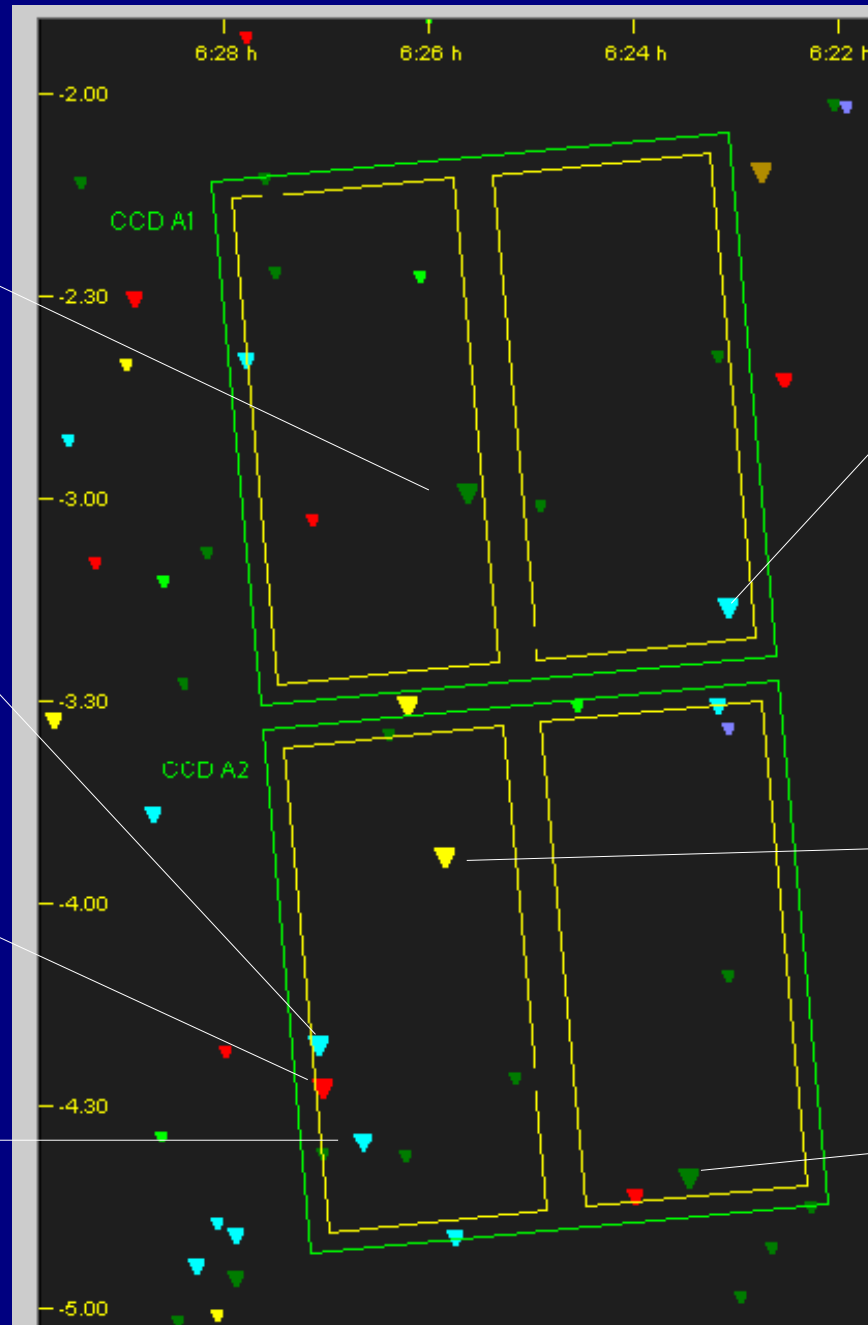
Short Run Suggestion 1

HD 45139 - A0
V = 6.7

HD 45418 - B5
V = 6.5

HD 45398 - K0
V = 6.8

HD 45321 - B2V
V = 6.2



HD 44701 - B5V
V = 6.6
Eclipsing binary
beta Lyrae type
Brightest one!

HD 45168 - G9III
V = 6.4

HD 44756 - A2V
V = 6.7

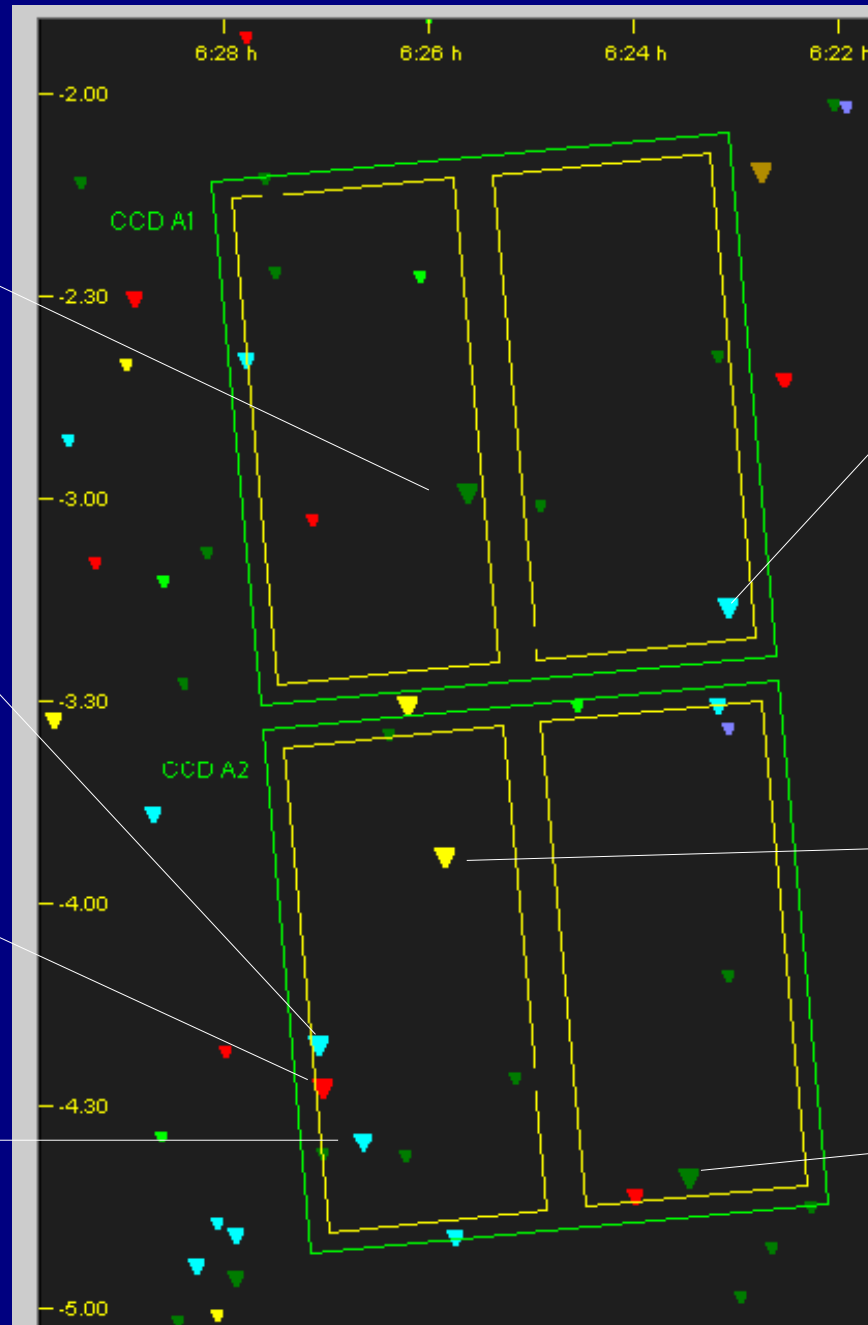
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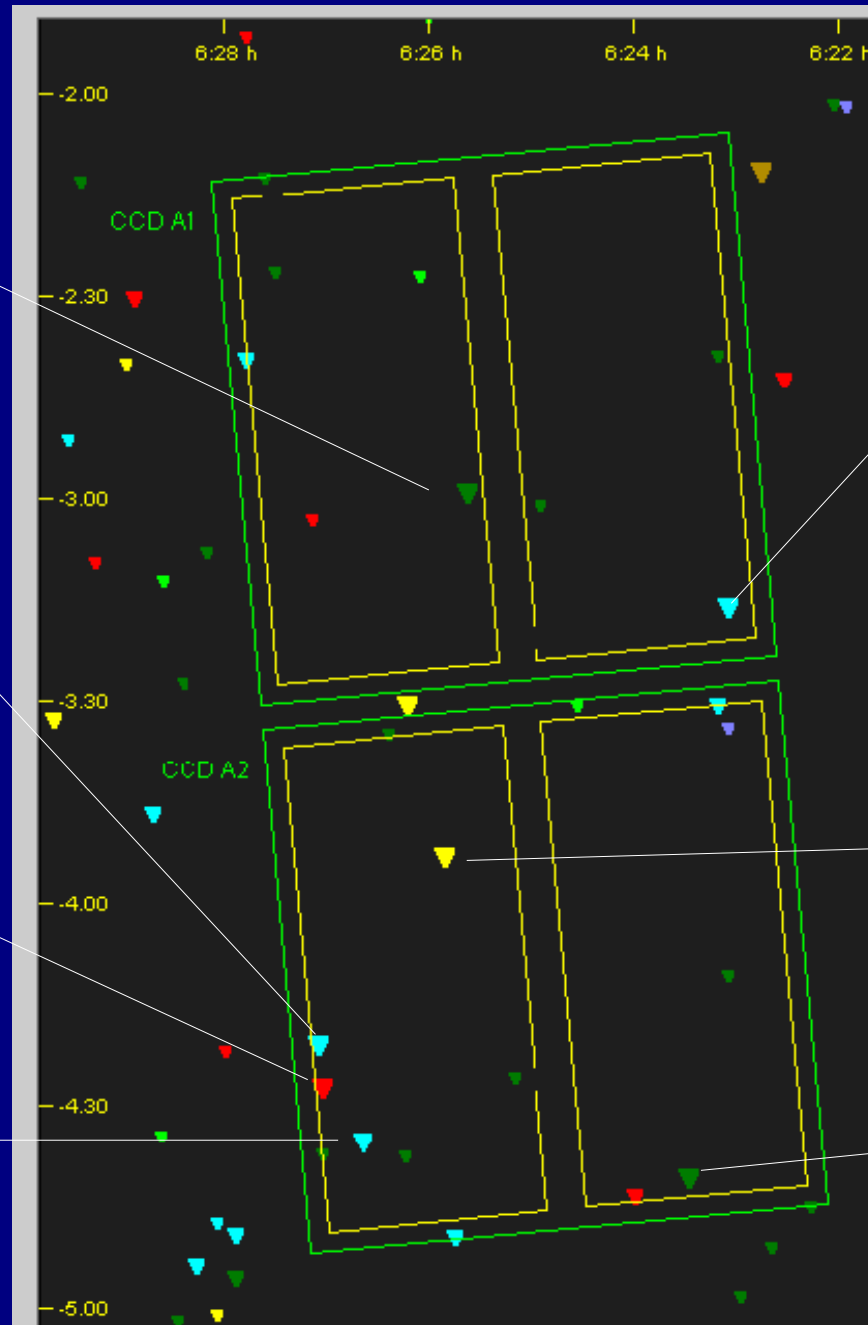
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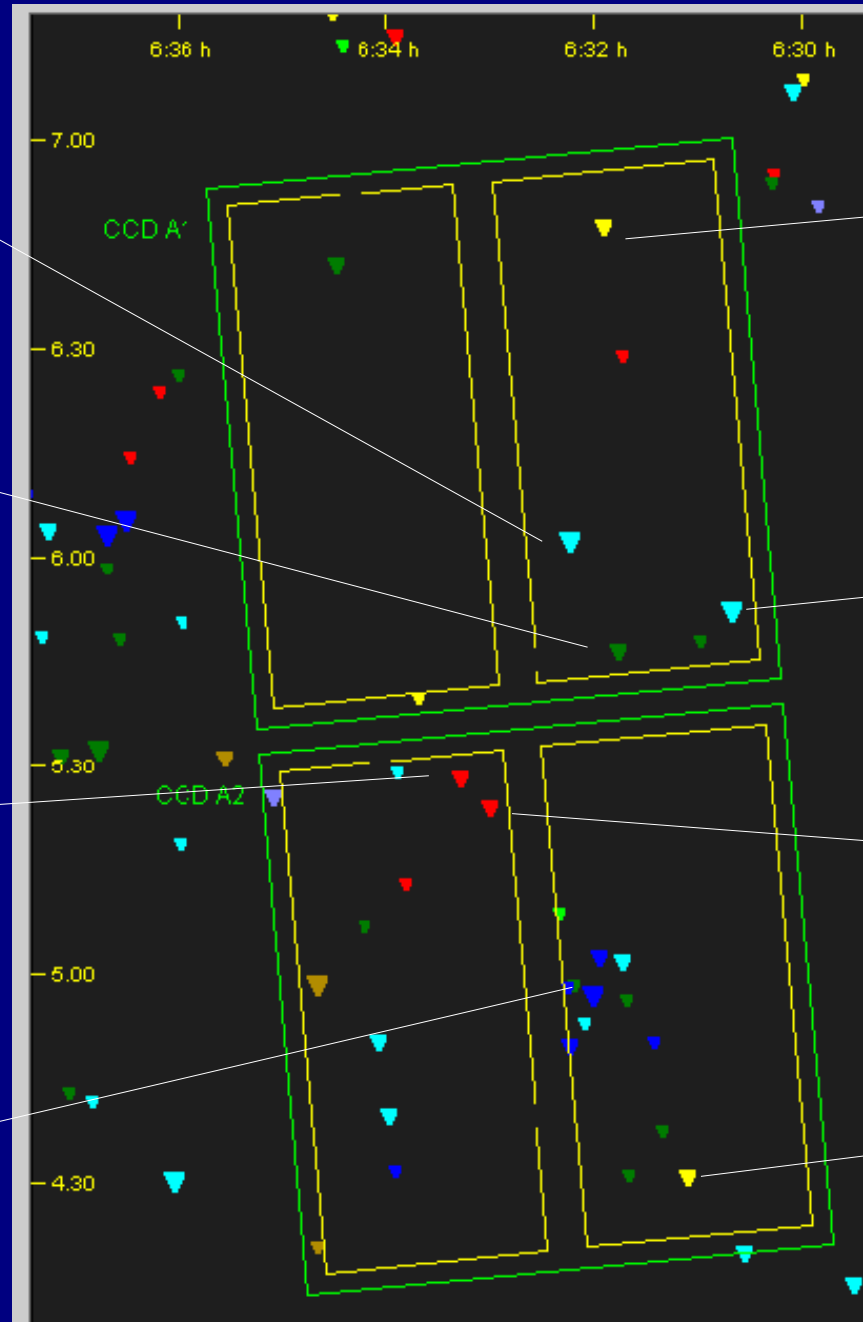
Short Run Suggestion 2

HD 46179 - B9V
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(Maia?)

HD 46105 - A1p
V = 7.1
(Maia?)

HD 46375 - K1IV
V = 7.8

HD 46150 - O6
V = 6.8
Oe star



HD 46122 - G3 IV
V = 7.3

HD 45910 - B2III
V = 6.7
Be star

HD 46324 - K5III
V = 8.0

HD 46006 - G7III
V = 7.9

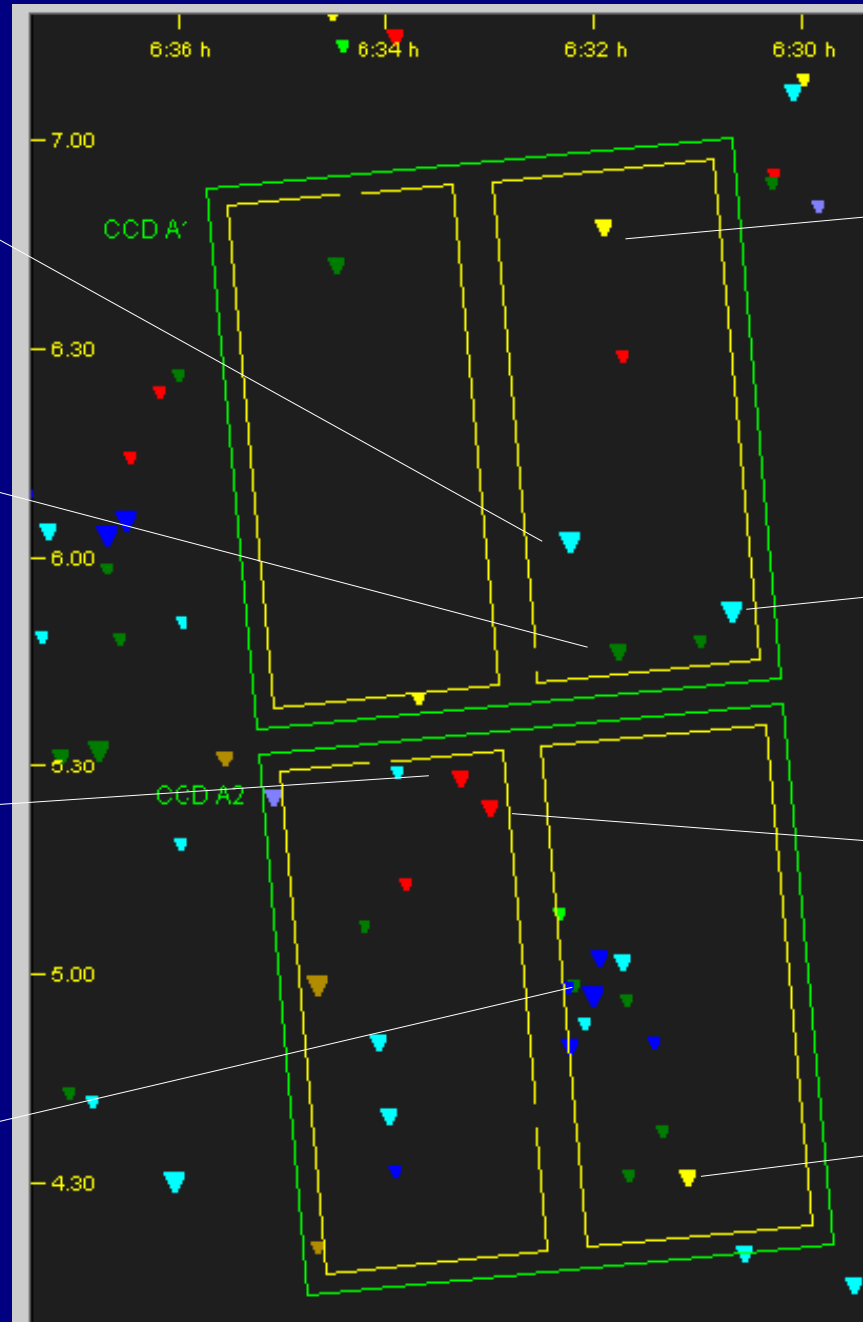
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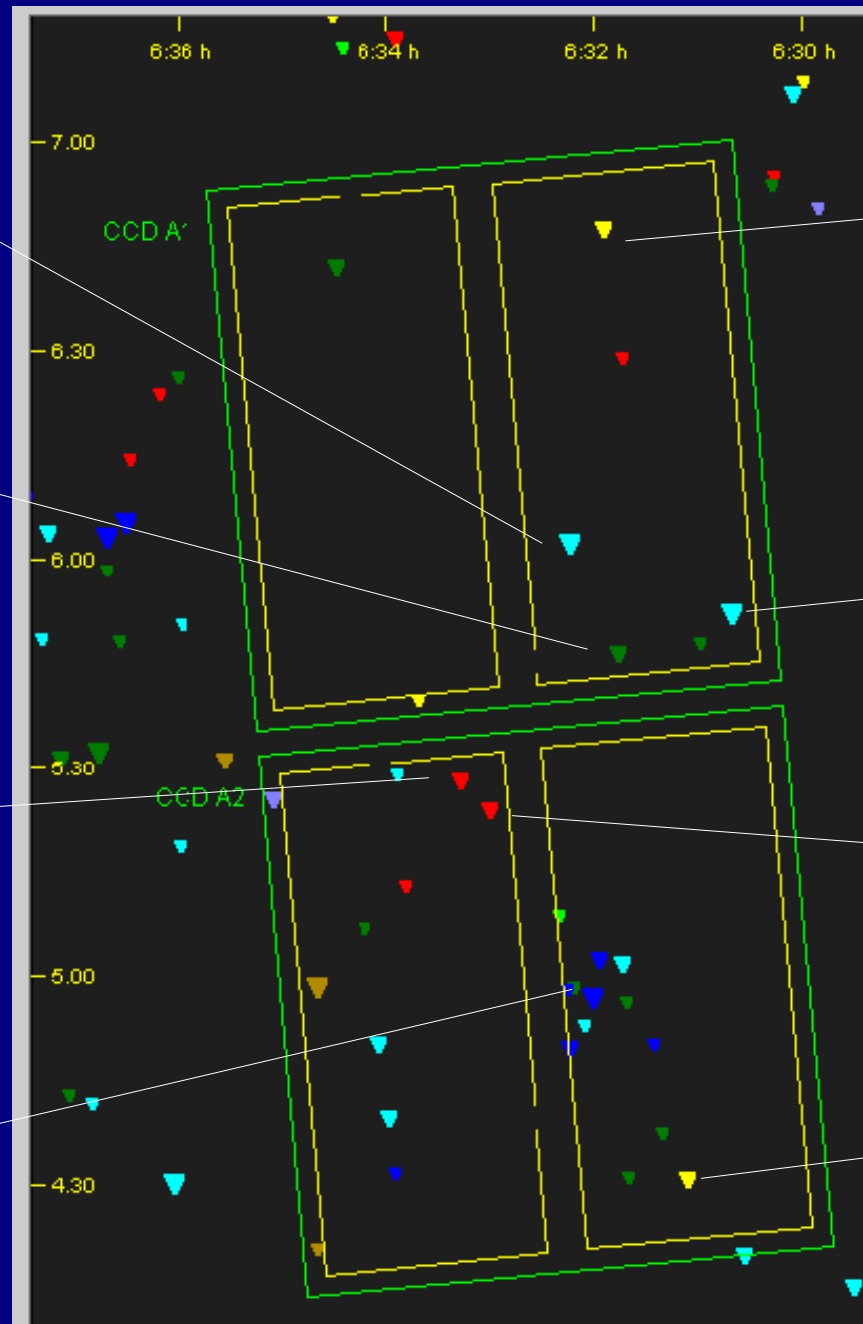
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To Remember

- Great science with a bright Red Giant in a short run!

- Two suggested fields:

1) **bright** Red Giant

+ brightest beta Lyrae type eclipsing binary

+ 2 stars in beta Ceph & delta Scuti instab strips

2) **bright** Red Giants

+ Be & Oe stars

+ Maia candidates