Preparations for observations at the summer school

- General introduction

What do you need to prepare / decide before the observations start tonight?

- Suggestions and description of possible projects to carry out

- 63 cm telescope projects
- 1.65m telescope projects
- SONG projects
- NOT projects

- WORK!

General Considerations

- What do you wish to observe (and why)?
 - the science
 - objects?
- Which instruments are available?
 - observing time applications...
 - imaging
 - Filters, Spatial resolution, S/N needed
 - spectroscopy
 - Spatial resolution, Spectral resolution, S/N
 - remember calibrations... what do you need (bias, flats....)

When and from where can your target be observed?

- time of year
- time critical (eclipses... outbursts.....)

What should you prepare / investigate for the coming obs.?

CHECK the archives !! (ESO, others). Has this been done?

- Coordinates (Ra, Dec.... proper motion!)
- Finding charts

Use: aladin.u-strasbg.fr/aladin.gml

- Visibility plots

Use: www.not.iac.es/observing/forms/visibility

... where is the Moon?

How much obseving time do you need?

- Use Exposure Time Calculator (ETC)

NOT+FIES:

http://www.not.iac.es/observing/forms/signal/v2.2/index.php

- ESO has an extensive collection of ETCs
- Alternatively:

Star with V=0 provides

1000 photons per second/cm²/Å outside the atmosphere

Object: β AqI

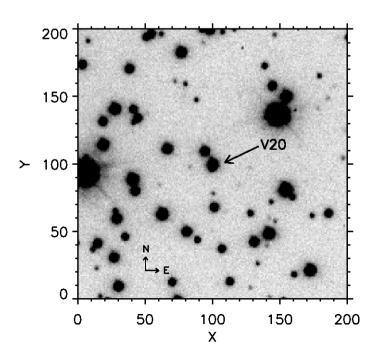
 $(\alpha, \delta) = (195518.8; +062424)$

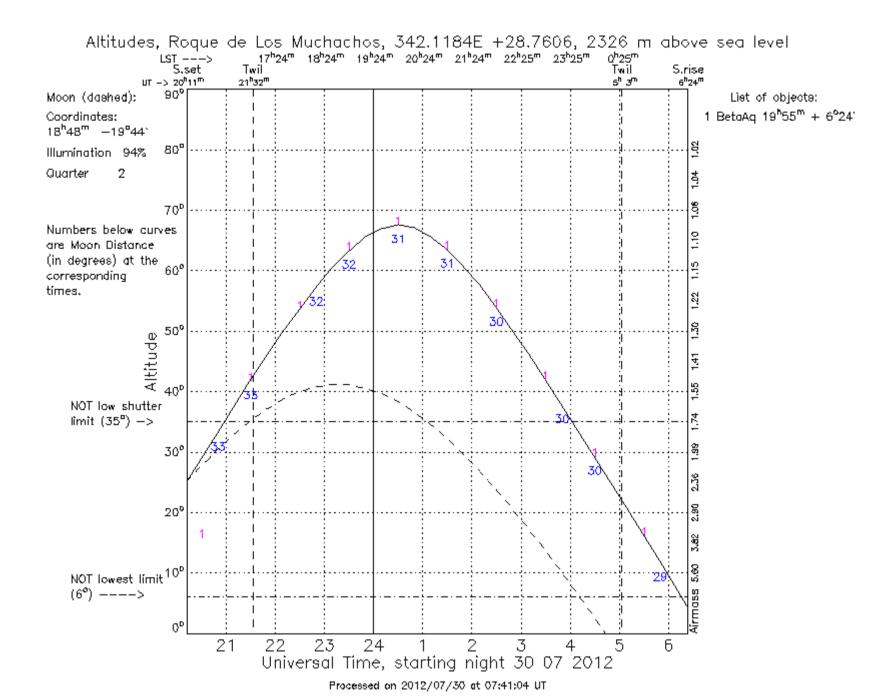
Vmag = 3.71

Culmination on July 30, 2012: 00:30 (UT)

Finding chart:







Possible SONG projects

- 1) Abundances of bright stars in the Kepler (and other) fields
- 2) roAp stars (two possible, γ Equ and β Cor Bor)
- 3) Exoplanet radial velocity
- 4) The effects of spectral resolution on abundance determinations
- 5) Measuring the SONG efficiency
- we suggest to not use the iodine cell (complex data reduction)