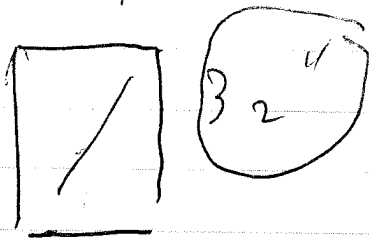


24th Gemini/Michelle 20-22 Nov, 2008 (1)
20 Nov.



Rachel: not noticed
IRIS does Quad Correlated

No flat field! Sampling

FITS files written at end of
observations 400 s on source

~1600 s total

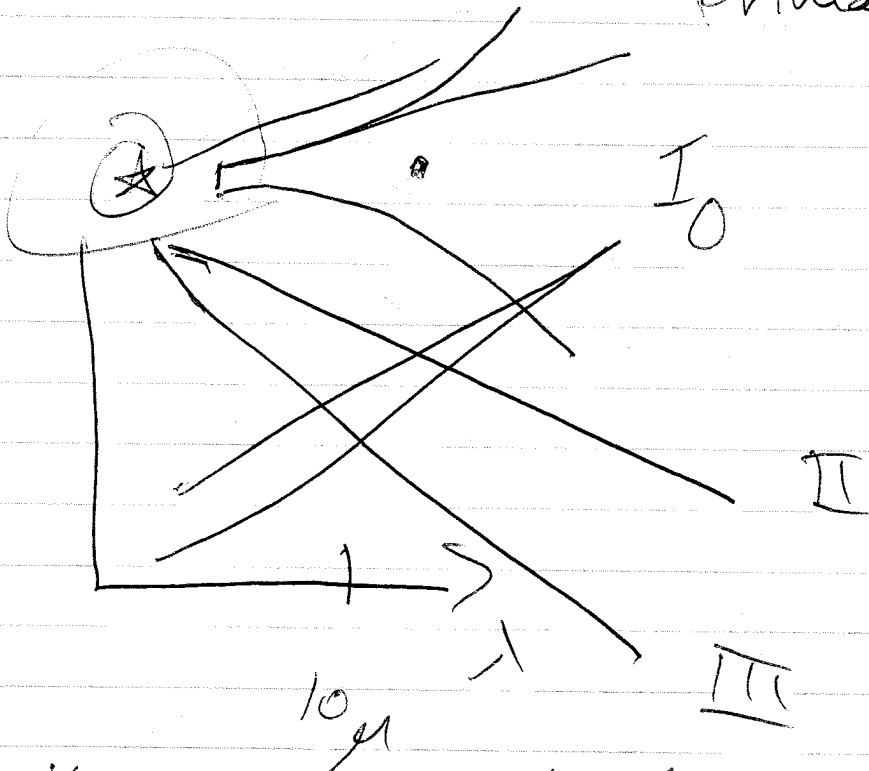
Tip tilt guiding necessary - wind!

bad column - only ~2x2x2" fov.

(Hilo)



Primary standards



Kevin - standards

sec fault report

mpao/LTCS

@ H P - 4 PM mtg - 'scope fixed (?) one computer
re-booted. Working on time-sync (d h p t time?)
'Epics' database
Altair report 0.6"

~10-20 people on telescope (Gemini staff ~100 or more!)
i box needed for Michelle?

Note: 12th mag guides for - can star
right @ 6:15 PM (+ keep going til 6 AM)
13th mag - have to wait a bit

21 Nov, 4 PM - computers under control

Found one companion last night

Tip/Tilt x-axis tuning (Chris) - chops OK

GPS time - may work @ 4:30

Michelle - added He (small leak)

i new secondary mirror (M2?) - Chris daytime test

May work - tuning for image quality - old system

Intermittent image problems - Chris at summit -

leave @ 11 PM (14^h rule) - must switch to old

system - can be @ summit all night 22 Nov.

Elevation dependent - elongated images (20%)

- experiment with Cohen std.

Q88 - spect. bright variable stars

Jessie + Riccardo

6:30 PM 8.5 mag M1 star ~0.7" mag

Alt air astigmatism - needs reboot

7 PM "Clear" toward N (Cas) - 54,000 ADU -

saturated? - yes! probably clouds (hopefully
not ice on entrance window)

filter 116B9 detector 8.5K upto 8.72K

down to 8.50K (nominally 7.8K - over

9 - 9.5K, trouble!)

Std. star near IC 348 - image ~0.3"

slight oval

FWHM ~ 4 pix

$\sim .4''$ (3)

7:10 PM - Sky $\sim 48,000$ ADU

LRL 6 in IC 348 $3^h 45^m + 32^\circ$ 1.8 AM

Sky down to 47,000 ADU

now 46,000 ADU 8:05 PM

Sky up to 54,000 ADU - clouds! 8:15 PM

53,945 ADU 2 AM to E

1.4 AM 41,400 ADU Sky

FWHM ~ 8 pixels

8:25 PM

Just over 4 pixels (IRAF) 3% ellipticity
on to LRL? Sky down to 41K - looks

fairly clean outside defects @ 8.8K

Sky $\sim 42K$ ADU LRL 31 clearly detected

Image elongated horizontal direction - astigmatism?
or chip mirror? (chopping @ 45°)

Sky 43.6K? cloud

Change to 18.1μ 6.3 mm H₂O Way too
much! 54K ADU - saturated

LRL 2/1 @ 1.4 AM detected 8.8K

11.7μ also 54K ADU ?? cloud?

Report to Inger re: Mirror 2ndary (zerodur,
54 kg, new)

54.3K ADU Sky

Clouds have increased - Cas has disappeared -
the Pleiades is indistinct - only Orion is in
relative clear - but > 2 AM - stay in IC 348
& hope for clearing

9:30 PM - Orion disappeared - Now re-
appeared - clouds everywhere - stay in IC 348 &
hope for clearing

10:30 - More sucker holes - ADUs
up to 54K ADU - clouds!

10:45 - sucker hole appears in Taurus -
go to GM Aur (we are back to the old
M2 control parameter - Chris leaving the
Mt. (14h) - see if image decent.

11 PM Orion + Cassiopeia appear
54 KADU sky - clouds

11:15 PM - new sucker hole - try 11.7 μ
44 K sky - can see star!

1:06 AM - Image looks good! - can see Argy
ring! - slightly elliptical FWHM < 4 pix
~12% ellipticity

GM Aur - 54 KADU - cloud!

11:45 PM 54 KADU - cloud!

12:30 AM 54 KADU - Doppler radar
shows some precipitation near Saddle Rd.

46 KADU sky - GM Aur detected, clearly
@ 11.6 μ

HD 38344 - image slightly elongated 3.8 pix FWHM
20% ellipticity
V819 Tau - nada 46 KADU sky - thin cloud?

50 K sky

1:20 AM 46 K sky 1:03 AM can see V819 Tau
1:30 AM 50 K sky off center a bit
1:40 AM 51 K sky ~5" - very faint @
11.7 μ !

1:45 AM 49 K sky
LRL 121 (~1.5 x V819 Tau) 50 K sky

Sky 52 K @ 1:55 AM