

## Start Observation(1)

In the dome,

0a) Make sure the elevation is locked

\*0b) Open the louvres

\*0c) Turn the mirror fans ON

In the control room,

1) Switch ON **Telescope Motor Drive**

(lower panel of the rack)

2) Go to the dome and

unlock the elevation drive

3) Switch ON **Dome Controller**

(middle panel of the rack)

[You can now use the hand-set, only for  
dome movements: **+X, -X, Up, Dn**]

4) Switch ON **Telescope Controller**

(upper panel of the rack)

[Wait 30 sec for DOS programme to start]

[Now use the hand-set for telescope also.

Press MODE (toggle) to get manual control

Telescope: **X, Y, (SPEED2 is faster)**]

## Start Observation(2)

- 5) Check status of **Telescope Controller**  
(monitor switch to B)

Last line(**Errors**) should be "**NONE**".

(If you have an error, press MODE SELECT on the handset once to enter the manual mode and again to return to AUTO.)

- 6) Run 2 programmes:  
(monitor switch to A)

Log into **mouko** as user **obs**

**cd ~/telescope (CR)**

**startx (CR)**

Click mouse and open one kterm window.

**startIRSF (CR)**

This will 1) override the default 10-minute screensaver timeout, 2) display the humidity and temperature graphs, and 3)open two kterm (Japanese kana-xterm) windows

(usually done already)

- 6a) in one window,  
**./telescope (CR)**

[monitors telescope status]

(you will see a stream of numbers)

- 6b) in the other window,

**./client (CR)**

[telescope control software]

- 7) Search for the zero of the encoders of Azimuth, Alt and Instrument Rotator:  
in the menu of the software **client**  
**3: Zero Search** , again **3** to confirm  
[Az will decrease, Alt will decrease, InsR will increase]  
then check if the last 4 digit of the stream of the number on the telescope's window turn from **8xx6** to **8xx3** (when the telescope drive works, the last digit will be 7)

- 8) Open the dome shutters

**o: Dome Control** then

**5: UPPER Shutter OPEN**

**7: lower Shutter OPEN**

- 9) Open the mirror cover

(if the alt < 80 deg, the cover will not open)

**d: Mirror Cover Open**

Can be done at **SiriusB "gogo\_sirius"**

- 10) Start SIRIUS

- 11) If necessary, open cold shutter

## Finish Observation(1)

- 1) Move telescope to the rest position  
**q: Move for finish**
- 2) Close mirror cover (alt > 80 deg)  
**e: Mirror Cover Close**
- 3) Close dome shutter  
in the menu of the software **client**  
**o: Dome Control** then  
**6: UPPER Shutter CLOSE**  
**8: lower Shutter CLOSE**

Can be done at **SiriusB "gogo\_sirius"**

- 4) End the **SiriusB** programme **telmon**  
(In **IRSF monitor**, click **EXIT**)
- 5) End the software **client**  
in the menu of the software **client**  
**0: End (all)** , again **0** to confirm  
(the **telescope** software also ends)
- 6) If necessary, close the cold shutter

## Finish Observation(2)

- 8) Switch OFF **Telescope Controller**  
(upper panel of the rack)  
(If it will not switch off, switch OFF the rear switch and then ON. If you forget to switch on, next time you will wonder why the **TC** does not turn on.)
- 9) Switch OFF **Dome Controller**  
(middle panel of the rack)
- 10) Go to the dome, lock the telescope
- 11) Switch OFF **Telescope Motor Drive**  
(lower panel of the rack)
- 12) Go to the dome,  
\*Close the louvres and  
\*Turn the primary mirror fans OFF with the switch in the southwestern corner above the mirror cell.