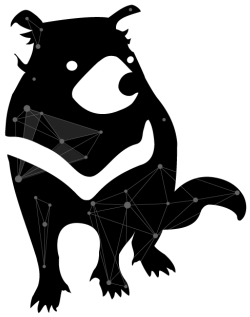

DEVILS

Deep Extragalactic VIsible Legacy Survey

Support Astronomer Guide Version 0.1

Luke Davies (21/12/2017)

1 Overview

2 In The Day

2.1 Initial Checks

1. **Check the run number is set to 1.** This should be done in a pop-up window that appears each day at 11am.
2. **Check/Set program ID to correct value**. This is done in the 2df Control Task > Commands window (ORANGE 1 in Figure 1).
3. **Set ADC to NULL**. This is also done in the 2df Control Task window. Select 'more' under ADC (RED 1 in Figure 1), and the 'null ADC'.
4. **Check configuration files are available**. Check that the configuration files for the night have been copped to the correct **/configs/devils/YYMMDD/** directory on `aatlxh`.

2.2 Take Biases

Use the CCD Control window.

1. **Ensure dark screens are closed on AAOmega**. This needs to be done in the spectrograph room. Drop the screen over both the red and blue CCD.
2. **Set exposure time to 0**. This is set in the box labelled with the RED 1 in Figure 2.
3. **Set observation to 'Bias'**. Found at RED 2 in Figure 2.
4. **Set run type to 'Normal'**. Found at RED 3 in Figure 2.
5. **Set exposures to 10**. Exposure numbers are set at the RED 4 in Figure 2.

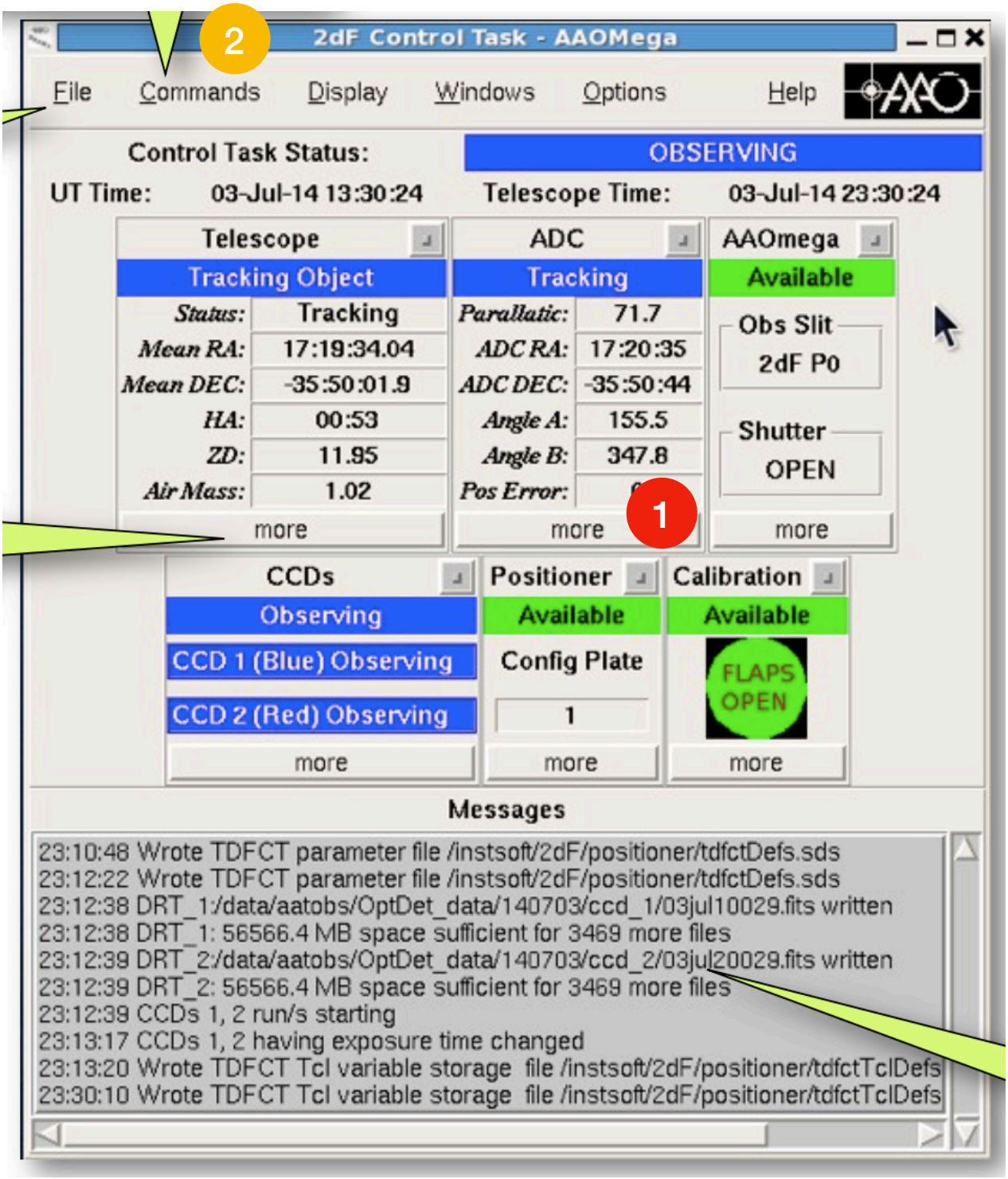

Figure 1: 2dF Control Task Window

6. **Start running exposures**. This is done by hitting the 'Start CCD Run' button - BLUE 7 in Figure 2.While the exposures are 0sec, this will take $\sim$ 15min as the CCDs.

7. **Lift dark screen**. Once finished, ensure that the dark screens are lifted.

2.3 Configure First Plate on 2dF

Use the Positioner Control window.

1. **Check Plate Number**. Check that the correct plate number (0,1) is the configuration plate currently on 2dF. This can be found in the Positioner Control window (RED 1 in Figure **??**, or at the top of the Positioner window (RED 2 in Figure **??**). You should also see that it is the top plate in the small image on the Positioner window (RED 3).

2. **If needed, Tumble**. If you need to change the plate you can do so in the Positioner Control window but hitting 'Tumble' at the ORNAGE 5.

3. **Copy .sds file for configuration**. In the xterm copy the configuration file you want to use from **/configs/devils/YYMMDD/** to **instsoft/2df/configs/*mon*17/*DDmon*/**.

4. **Load .sds file for configuration**. You can now see the configuration file to load. Select 'Find File' in the Positioner window (GREEN 6 in Figure **??**).

5. **Set the start time and duration**. For your configuration, set the start time (local time in 24h format, PURPLE 7) and duration (in hours, PURPLE 8) in Figure **??**.

6. **Set the Weather Conditions**. Select the 'Weather' tab in the Positioner Control window. The hit 'Fetch from Weather...' button. NOTE: if you are configuring in the day, take a few degrees off the fetched weather for the drop in the night. Write down the 'Positioning Stats" on the 2dF observer sheet.

7. **Check Wavelengths**. Select the 'Wavelengths' tab in the Positioner Control window. Check that they are 6000, 2000, 5000.

8. **Check Input Parameters**. Return to the correct plate tab on the Positioner Control window and check the Field, Plate, Time, Duration and configuration you have set.

9. **Check Input Parameters**. Return

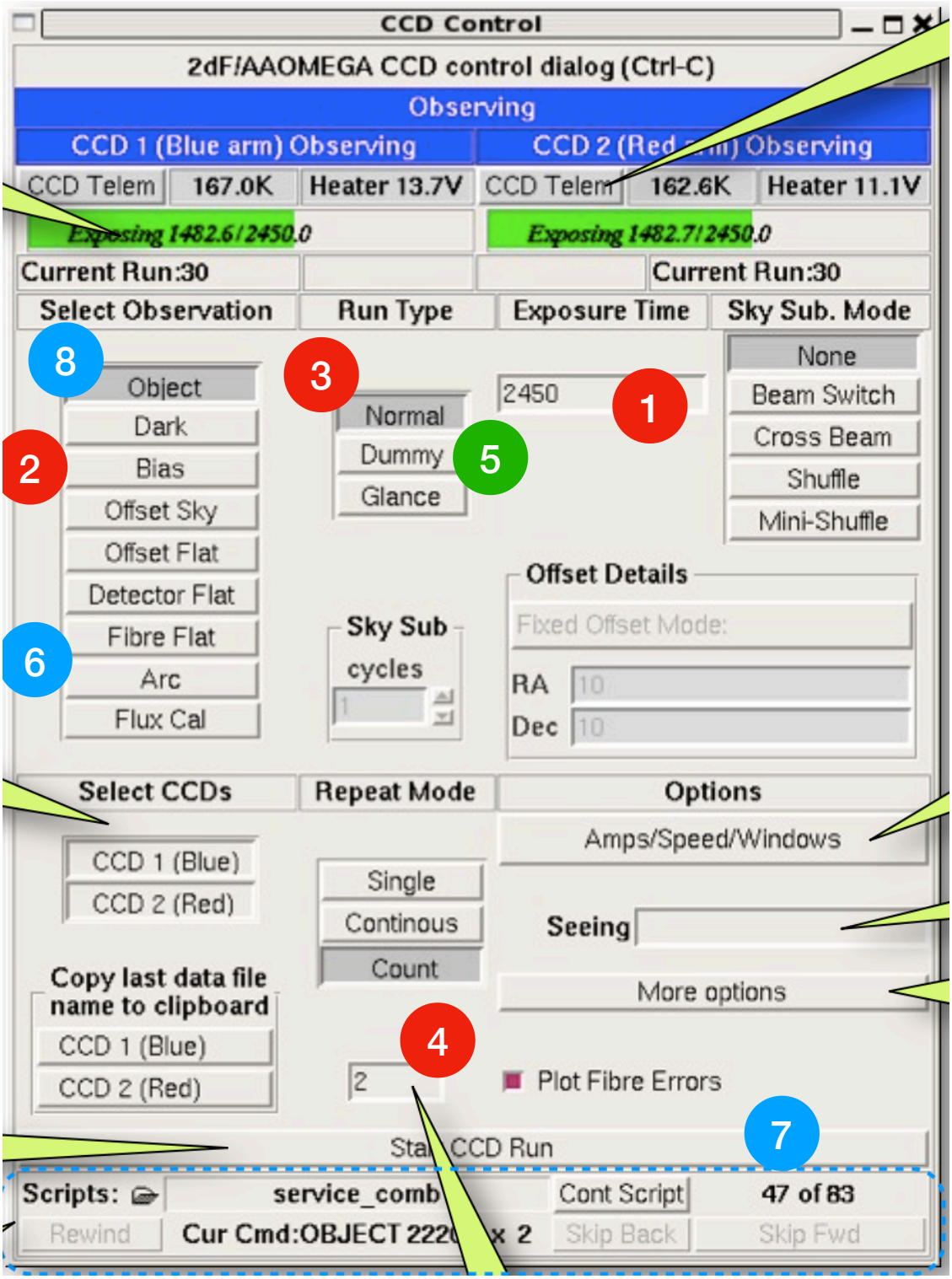

Figure 2: CCD Control Window