Smiley User's Guidesheet
PARI 4.6m Smiley Radio Telescope

Login and Scheduling

Go to the website http://smileycontrol.pari.edu/newsmiley/ to log in. This can also be accessed through the Research and Education sections of PARI's website http://www.pari.edu .

1. Type in your username and password.
2. A new page pops up. On this page select the menu item "Schedule Control Sessions."
3. A calendar pops up. Select the month you want. Select the day by clicking on the day number.
4. Enter the time of day you will start and end your session. Enter the times in 24 hour format, using hh:mm.
5. Click "Submit Request."
6. Click on "Return to Control Room."
7. When your scheduled time begins, click on "Start Control Session" on the "Control Room Manager Menu."

In the Control Session: Operating the Telescope

Move the telescope one of four ways:
1. Click on the UP DOWN CW CCW buttons on the Handpaddle.
2. Click on a spot on the "Map" and then click GO.
3. Select an object from the drop down list and click GO.
4. Enter RA/Dec or Alt/Az in the "Target Coordinate" boxes.

Take a Spectrum:
1. Select the "Spectrum Tab."
2. Set the IF Gain to 16 to begin with. (You may need to increase/decrease this.)
3. Click on "Start Scan."
4. When a scan completes, it will start over again automatically.   When you are done taking data, click on "Stop Scan."
5. Save your scan by clicking on "Save Scan" and enter a filename. Your data will be saved under your username.

Take a Continuum measurement:
1. Select the "Continuum" tab.
2. Set the IF Gain to 16 to begin with. (You may need to increase/decrease this.)
3. Click on "Start Scan."
4. Click "Stop Scan" when you are done.
5. Save your scan by clicking on "Save Scan" and enter a filename. Your data will be saved under your username.

Mapping the Sun
1. Select the "Mapping" tab.
2. Point at the Sun.
3. Set the IF Gain to 11.
4. Click on "Begin Map. " The Map will take about 10 minutes to complete.
5. When done, put the cursor on the map and right click and select "Normalize."
6. Save your map.