**Data Preparation**

Below is the list of scripts to be run in order to:

-reprocess and deflare level 2 event files (for spectral extraction)

-determine the cornorm value for background scaling

-create an exposure corrected, background subtracted image

-to remove point sources from that image

Each script contains a description of its purpose in its comments.

**Download the five observations from the Chandra Data Archive.**

Their obsids are : 3591, 20590, 22130, 22136, 22137

Before running, list the names of the observation directors as individual rows in the file "flares.dat".

All scripts below (and flares.dat) should be located and run from the same directory that holds the observation directories.

bash fl\_cha\_repro.sh

bash fl\_lightcurve.sh

bash fl\_back7.sh

bash fl\_fluximage\_new.sh

bash fl\_bkchipreg77.sh

bash fl\_fluximage\_ccd\_hard.sh

bash fl\_hard\_cornorm.sh

bash fl\_imgall\_new.sh

bash fl\_wavedetect\_new.sh

python fl\_dmfilth.py

bash fl\_dmfilth.sh