

Processing Solar Data (Basic)

UPM Method

Solar data is typically processed using udpPacketManager, to produce a Stokes IV output, downsampled by a factor of 256 to 1.3ms, using a set of automated scripts.

The `process_data.sh` script can be set to process any subdirectories with data on a specific path, or will automatically find the newest directory of observations, and process any Solar observations.

The series of commands needed to setup a processing run can be found in the code block below.

```
obs@ucc1:~$ cd rs
obs@ucc1:/mnt/ucc1_recording2/data/sun$ mkdir 20230530_sun357
obs@ucc1:/mnt/ucc1_recording2/data/sun$ cd 20230530_sun357
obs@ucc1:/mnt/ucc1_recording2/data/sun/20230530_sun357$ cp ../templates/* ./
obs@ucc1:/mnt/ucc1_recording2/data/sun/20230530_sun357$ bash enter_docker.sh

root@2639bfd271d6:/home/user# cd $LAST_DIR
root@2639bfd271d6:/mnt/ucc1_recording2/data/sun/20230530_sun357# bash process_data.sh

# Alternatively
root@2639bfd271d6:/home/user# cd $LAST_DIR
root@2639bfd271d6:/mnt/ucc1_recording2/data/sun/20230530_sun357# bash process_data.sh
/mnt/ucc1_recording2/data/rrats/2023_05_30/

# After processing
root@2639bfd271d6:/mnt/ucc1_recording2/data/sun/20230530_sun357# exit
obs@ucc1:/mnt/ucc1_recording2/data/sun/20230530_sun357$ bash transfer.sh
```

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