## EIS Core Team Studies

Week beginning 11th April 2008

This summary resumes the weekly statement of desired EIS core team studies. It will hopefully become more applicable as our available S-band coverage increases and we become more accustomed to restricted use of the on-board mass memory.

As of 9th February 13:24 UT (EIT 195), there is essentially no activity on the disc apart from AR 10989 which has just crossed the West limb. Overall activity is at or below GOES-A. There is a well developed S-polar CH visible in STEREO B and a small on-disc CH in the S-W quadrant.

0\_a. Run SYNOP005\_A at Sun-centre during each XRT SYNOP

0\_b. Run SYNOP006 weekly if possible but still useful at longer intervals

0\_c. Continue support for WHI observations where possible.

1. Polar Coronal Hole Observation – Harra

- EIS should be pointed to include the boundary of the coronal hole and the limb
- Obtain velocity maps of million degree plasma
- request Ca II from SOT and the normal polar dynamics study from XRT.
- 1" slit scan, FOV 140"x256", 45sec exp time; DPCM for line profile precision
- run JS\_CH\_140x256p; data volume: 77295 kBits, run time: 1h55m13s
- Note 1: run regcal 071 and regcal 072 before running this study
- Note 2: ideally this study should run e.g. 2 or 3 times consecutively
- 2. Coronal Hole Density Measurement Young
  - polar or equatorial CH
  - select pointing based on EIT 195 images; choose darkest part of CH
  - accurate warm pixel removal essential for CH data
  - run REGCAL071 and REGCAL072 on the same day; also context study
  - study sequence is: REGCAL071

REGCAL072

PRY\_slot\_context\_v2

PRY\_CH\_density

- Note 1: repeat PRY\_slot\_context\_v2 to fill the available time slot; vol: 20 Mbit; data rate: 5.2 kbps

- Note 2: for large dark CH areas, stitch two or more repeats of PRY\_CH\_density

3. Data Compression Test Studies – Warren

- run series of HPW004\_Q\*, preferably on the same day and at the same location
- significant quantity of data missing from previous attempts
- run HPW004\_Q95 data volume: 120 Mbits
  - HPW004\_Q92 data volume: 99 "
  - HPW004\_Q90 data volume: 90
    - HPW004\_Q85 data volume: 72

- in addition a run of the DPCM version is desirable if possible

Week beginning 18<sup>th</sup> February and beyond

Continue above programme if possible; other studies are TBD