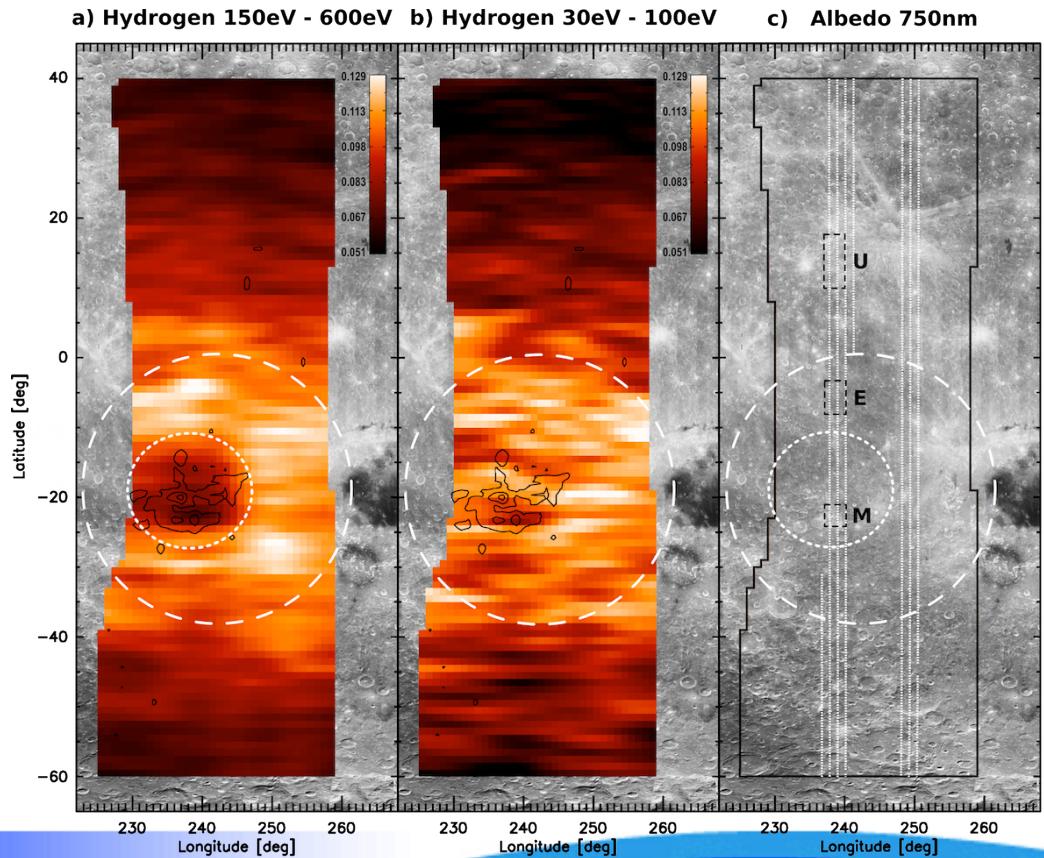


## Manuel Grande

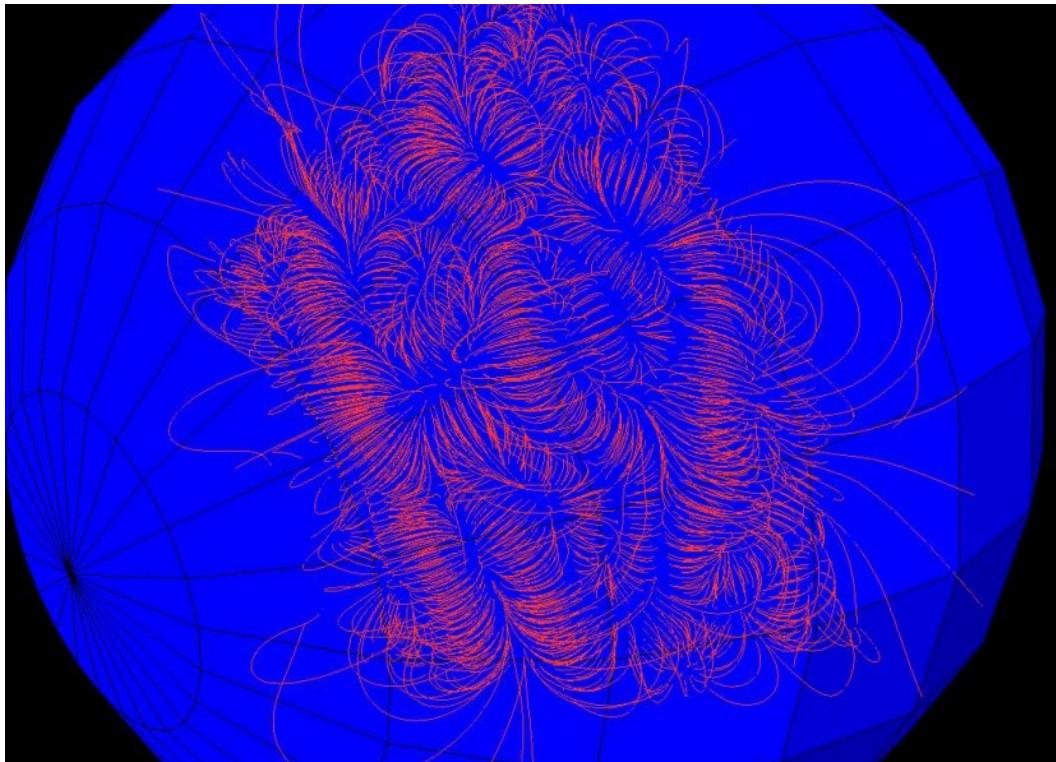
[m.grande@aber.ac.uk](mailto:m.grande@aber.ac.uk)



## MARS Tool is in 2 and eventually three parts:

- 1) Solar System Propagation Tool – ENLIL and then EU developed code – to predict disturbance arrival and Cosmic Ray modulation.
  - Note Forbush decrease analysis via ISSI
  - Note SEP prediction is beyond current capabilities
- 2) Atmospheric propagation tool using GEANT prototyped at Aber
- 3) Eventual local tool taking into account miniMagnetospheres and variable atmospheric depth due to altitude and seasonal changes – may be beyond the scope of this project

1) Coordinate with Bern Planetocosmics Software?



- 1) Need to coordinate with DLR Partners
- 2) Need to hire a PDRA