## Perigee Altitude Evolution – Proton belts

No indications of problems so far.

FCT is monitoring Satellite behaviour carefully.

PIs / ISDC should also monitor Satellite PLM behaviour.

# Seasonal and Long Term Changes in Belts Entry / Exit Altitude.

- Monitoring of Belts Entry Altitude in TM shows clearly seasonal and long term variation.
- CRIT_INST_ALT_DESC reduced from 54000km to 40000km from revolution 869 onwards.
- Gain of about 1.5 hours observing time / revolution.
- Possible scope for further reduction – see plot
- CRIT_INST_ALT_ASC, currently no change planned, evolution to be monitored – see plot.
- Effects of perigee evolution influence this.
- Duration of belts decreases, but intensity of belts passage increases (Proton).

# Seasonal and Long Term Changes in Belts Entry / Exit Altitude.

[redacted]

# Seasonal and Long Term Changes in Belts Entry / Exit Altitude.

[redacted]

# Mission Performance: Slews completed & Manpower used.

[redacted]

Performance:

- Slews completed is a measure of entire ground segment **RT reliability and Stability**: FDS, MCS, Communications, Stations.

FCT Reductions offset by automation and experience.

- The higher level of manpower available in the earlier part of the mission was put to good use to improve procedures, overcome problems and increase reliability.

Standard Operations OK.

Anomaly Recovery Times slower.

Change implementation slower.