

# Update on ESA Measurement Activities – Optical and Radar

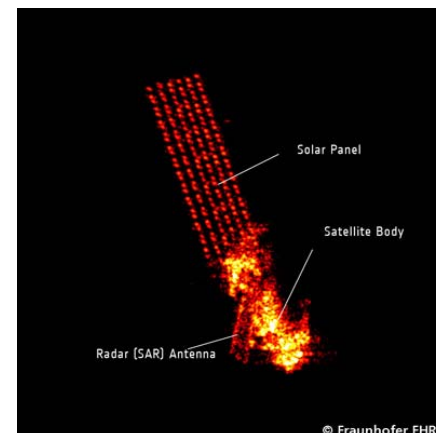
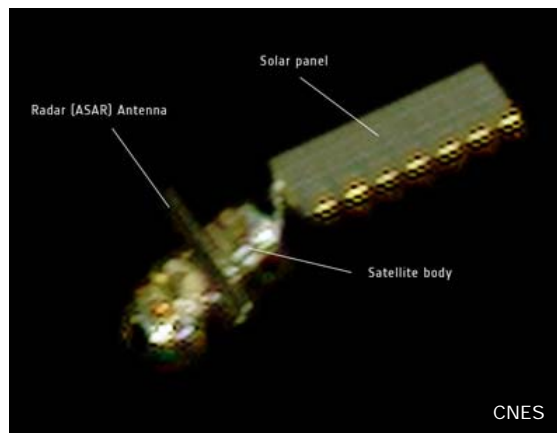


- Optical observations
  - Monthly survey campaigns
    - 1-m ESA telescope at the OGS, Tenerife
      - GEO/GTO surveys
      - Maintenance of catalogue of high AMR GEO objects  
→ Session 2.3 presentation (TS)
  - Total of 37 nights in 2011
  - MEO surveys completed (30 nights) → Session 2.2 (TS)
  - Study on observation strategies for eccentric MEO started
  - Study on hybrid CMOS detectors started
  - Study on streak detection in preparation
- Radar Observations
  - No 24h ESA beam-park during Summer 2011
  - Processing of 2010 beam-park with TIRA → DLR, data ready soon

# Update on ESA Measurement Activities – Upgrades and Reports



- Instrument upgrades
  - OGS
    - New camera (acceptance testing)
- Reports
  - Annual GEO classification, and ESA efforts on LEO classification from TLE data  
→ Session 3.1 presentation (TF)
- Attitude characterisation techniques
  - Lightcurves of upper stages acquired at Zimmerwald
  - Envisat observations for supporting contingency resolution



# Update on ESA Measurement Activities – SSA



- SSA Preparatory Program related
  - GSTP study of optical/radar data fusion for eccentric orbits, related observation strategies and sensor network architecture
  - Various support activities (requirements definition, system architecture, sensor design, federation of assets)
  - Council meeting Nov 2012