



**Australian Government**  

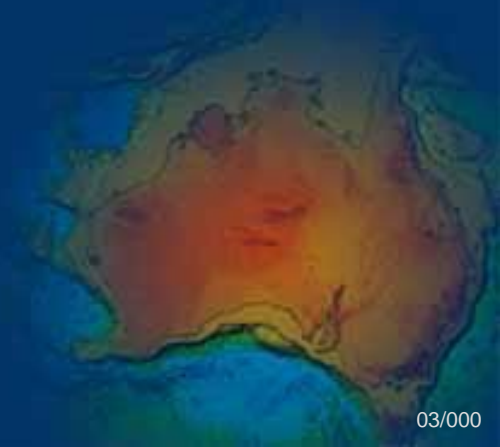
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**Geoscience Australia**

# **IDS Report**

**Ramesh GOVIND**

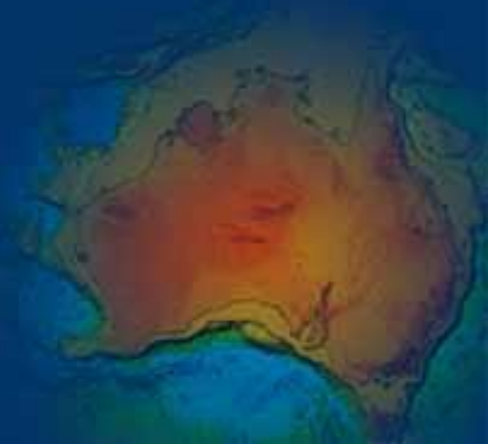
**IDS AWG Meeting 31<sup>st</sup> May 2012, Prague**



# Current Status

SINEX files submitted to latest available data:

- Gau12113wd10 – arc starting 12-04-22
- Assessing orbit accuracy wrt SLR for:
  - Envisat
  - Jason-2
  - Cryosat-2



# Current Modelling: 7-day arcs

Gravity Model + Time Varying Gravity	GGM02C (160X160)
Atmospheric density model	MSIS Empirical Drag Model
Tropospheric Refraction + Mapping Function	GPT + Niell Mapping Function
Atmospheric Gravity	ECMWF (until end 2011); NCEP (since Jan 2012)
Ocean Tides Model	GOT 4.7
Ocean Loading Model	GOT 4.7
Terrestrial Reference Frame	ITRF2008 + DPOD2008
SRP Macromodel	CNES
General Acceleration	Once per rev along and cross track sine and cosine ; once per day
Drag	Jason-2: 6-hourly; Cryosat-2: 4-hourly; Envisat: 2-hourly; Spot-4&5: 6-hourly;

# Proposed Modelling Changes

Gravity Model + Time Varying Gravity	GGM03C (160X160)
Tropospheric Refraction + Mapping Function	GMF or VMF (with GPT)
Atmospheric Gravity	NCEP (for all reprocessing)

Re-processing all data: 3 months.

