



## Annex 2

### Summary of Workshop Discussion Items

#### Specific Issues Raised or Questions Posed:

- What is the GOCE Data Policy? - ESA Data Policy will govern access to data
  - Are exclusive rights granted to the European GOCE Gravity Consortium (EGG-C) as sole participant in Level 2 data product generation? - Answer: No
  - A Current Study is underway by the EGG-C to identify a potential Level 2 data processing architecture. This study will identify:
    - Required Steps
    - Interfaces definition
    - Definition of mature, optional methodologies
    - Priorities for development phases
- 3 potential mechanisms are identified for receiving ESA “blessing” for data use:
  - limited Invitation to Tender (ITT) for contracted data processing (with Agency support)
  - direct negotiated participation in Level 1a/b - product development (Agency support)
  - Announcement of Opportunity (AO) – for data only (no ESA support)
- Potentially, an AO could be issued for purpose of identifying:
  - potential participants in Cal/Val campaign activities;
  - potential participants in Cal/Val of data products;
  - ‘quick-look’ teams for rapid evaluation of payload data stream anomalies
  - participants in Level 2 data processing;
  - 3<sup>rd</sup> party evaluation of competing EGG-C Level 2 data products;
  - generation of Validation/supporting data sets;
  - Generation of unique, non-standard (tailored) Level 2 products
  - Scientific applications using standard Level 2 data products
  - Level 3 data product generation
- Promoting the Mission (Explorer Web resources; EGG-C)
- Defining New/Essential Scientific Studies
- Coordinating scientific activities in long preparation period up to launch
  - optimising momentum
  - timing/tailoring workshops to GOCE Project input requirements
- Important to establish early on the interface between the Ocean Community & GOCE L2 Gravity Products
  - How are corrections implemented for atmospheric/oceanic mass distribution and loading?
- E. Schrama pointed out the advantages of a frozen orbit scenario for performing external geophysical calibration using collinear ground tracks.
  - What are pro’s/con’s of existing orbit scenario, both in scientific and technical sense, compared to a frozen orbit scenario (under the current design restrictions).
  - How can collinear ground tracks be exploited for external geophysical calibration?
  - How do non exact-repeating ground tracks affect calibration noise?



### Ideas for Future Focus Workshops:

- **Simulated Data Sets\*\*** (how to generate data sets for purpose of community spin up prior to data release?)
  - Use of E2E simulator? (Open-loop data simulations.)
  - Test data set specifications.
  - Gradiometer noise characteristics
  - Complete platform/system error characteristics

\*\* This item noted as one of highest priorities after GOCE workshop and Post W/S MAG meeting

- **Cal/Val Strategy**
  - Calibration (is there frequency-dependency control on cal. parameters?)
  - Appropriate region selection for Calibration
  - Product Validation planning (regional test areas)
  - What is the appropriate region size for comparisons with a regional solution?
    - What ancillary data necessary (e.g. DTM data; GPS levelling)?
    - Where do high quality screened regional data exist?
- **Level 1a/b-Level 2 interface standards**
- **Data Standards (for Level 2 Products)**

Before Product definitions frozen:

  - What form of Level 2 products required (specifications)?
  - What is the best product for oceanographers (geoid/MSS)?
  - We cannot satisfy tailored requests but would nevertheless like to optimise with from community input.
  - Are software solutions required, e.g. for converting level 2 products into specialised gridded products?
- **ESA Level 2 Product Definitions**

Metrics for determining “best” choice solution amongst varying gravity recovery methods

  - What criteria should be applied (choice/selection/regional data comparison)?
  - How can simulated/standardised datasets be used to judge amongst methods?
- **Thematic workshops**
  - Specifically tailored to GOCE Project input milestones:
    - Pascal LeGrand suggested a Workshop on “Oceanography requirements at Level 2”  
e.g. How will the oceans community use the data?
    - How do users apply the GOCE data in high res. geoid determination;  
direct use of data or spherical harmonics?