

EGSIEM

Title: TUM-IAPG Expertise relevant to EGSIEM

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GRACE/GRACE-FO Processing

- De-aliasing approach and strategies.
- Sensor analysis and sensor fusion (ACC, STR).
- PI of GOCE High Level Processing Facility.
- High resolution combined static gravity field modelling (optimal data combinations).
- Numerical challenges for new instrument performances.
- Simulation tools (quick-look & full scale).

Future Gravity Field Missions (post GRACE-FO)

- Coordination e.motion mission proposal (ESA Earth Explorer 8).
- PI of NGGM-D study (double pair SST low-low mission concept – e².motion).
- Involved in various ESA NGGM studies – currently in SC4MGV dealing with optimal processing AND parametrization of multiple pair missions.
- Coordination of experts group to prepare consolidated science requirements (IUGG supported activity).
- Member of ESA-NASA “Interagency Gravity Science Working Group (IGSWG)”. Goal: Explore possibilities for cooperation on future gravity satellite concepts.

Future Gravity Field Missions

Monthly geoid performance prediction (QL tool)

