

Towards a Roadmap for Future Satellite Gravity Missions



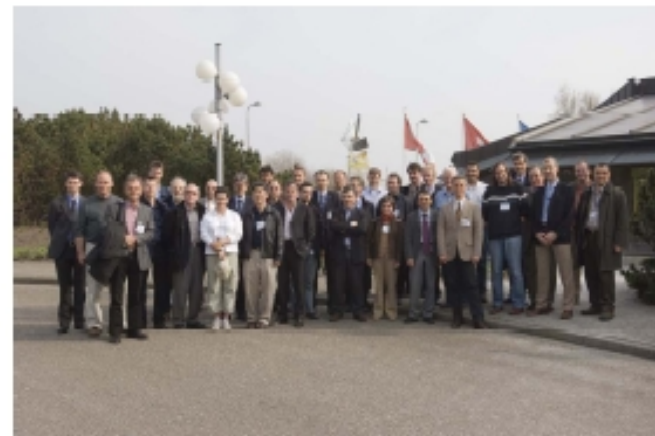
September 30 – October 2, 2009
Graz University of Technology

Workshop on
The Future of Satellite Gravimetry,
12–13 April 2007, ESTEC; Noordwijk
Radboud Koop, Reiner Rummel

The Future of Satellite Gravimetry

Report from the
Workshop on The Future of Satellite Gravimetry
12–13 April 2007, ESTEC, Noordwijk, The Netherlands

Radboud Koop and Reiner Rummel (Eds.)



Workshop objectives

- To establish a **roadmap** for future gravity satellite missions, including
 - a short-term perspective (GRACE follow-on)
 - a medium to long-term perspective
- which is in agreement with the user requirements as well as the programmatic boundary conditions of the space agencies.
- This roadmap shall include as a key element a matrix of generalized mission concepts addressing:
 - mission requirements (derived from user requirements) and expected performance;
 - pros & cons of the mission concept;
 - level of technological maturity and expected qualification time;
 - level of readiness of supporting science and identification of remaining scientific challenges (e.g., background models, temporal and spatial aliasing, etc.);
 - complementarity with other data sources;
 - cost estimates.
- It shall also cover a timeline including key milestones.

Workshop objectives

Based on this inventory, the planning of **future activities** can be done:

➤ **Science:**

- Which scientific studies are necessary to solve the remaining scientific challenges?
- How can we involve experts from neighbor communities to support us in solving open scientific problems?

➤ **Technology:**

- Which is the baseline technology to go for?
- Which residual technological developments have to be performed?

➤ **Organization**

- How to organize the community (and their presently rather scattered efforts) from this moment to a coherent one for the future?
- How can we set-up permanent links to all relevant user communities?
- How can we keep track on the balance of the progress in science and technology?

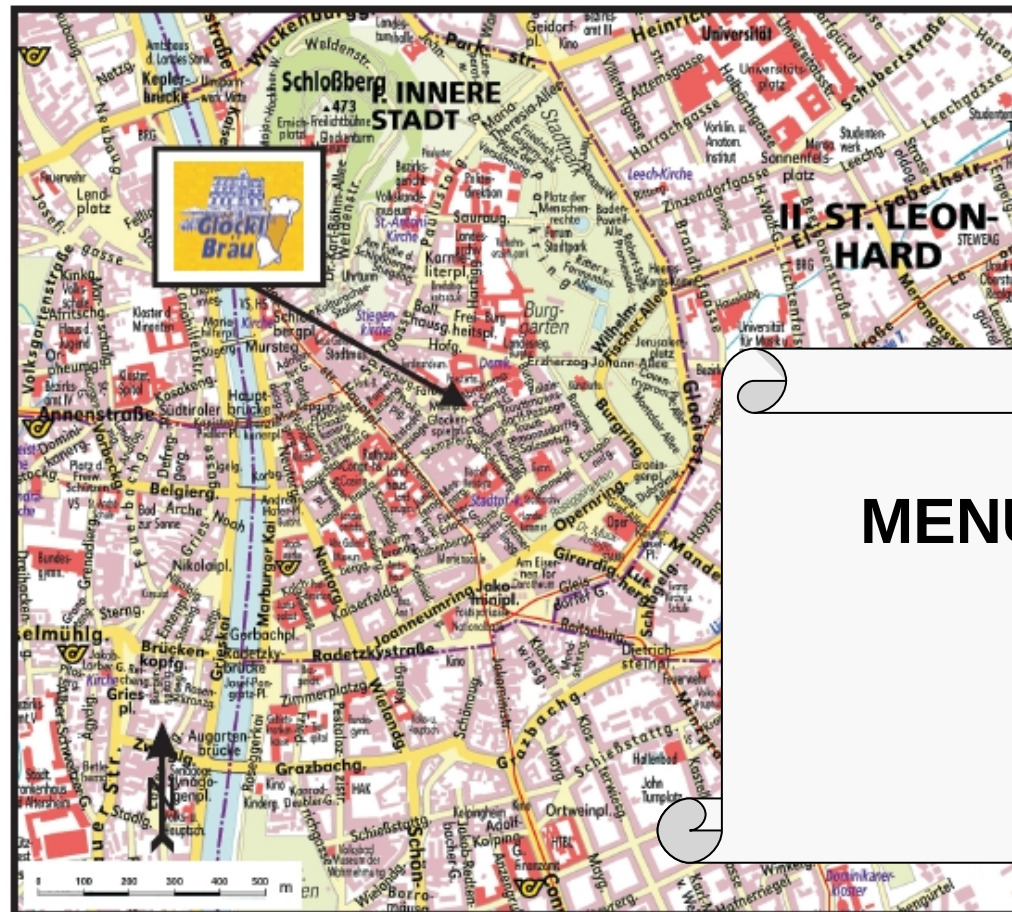
Wednesday

Program (overview)

09:00 – 10:40	P1: Status, Requirements and Challenges		
10:40 – 11:00	Coffee Break		
11:00 – 11:20	Introduction to Breakout Sessions		
11:20 – 12:40	B1 A306 Mission requirements	B2 BE01 Mission design	B3 A111 Data proc., modelling & interpret.
12:40 – 14:00	Lunch (buffet)		
14:00 – 15:40	B1 A306 ctd'	B2 BE01 ctd'	B3 A111 ctd'
15:40 – 16:00	Coffee Break		
16:00 – 16:30	P2a: Reports from the Breakout Sessions		
16:30 – 18:00	P2b: The Space Agencies: Programs and Boundary Conditions		
19:00 – 21:00	No-Host Dinner		

Program (overview)

GLÖCKLBRÄU



MENUE



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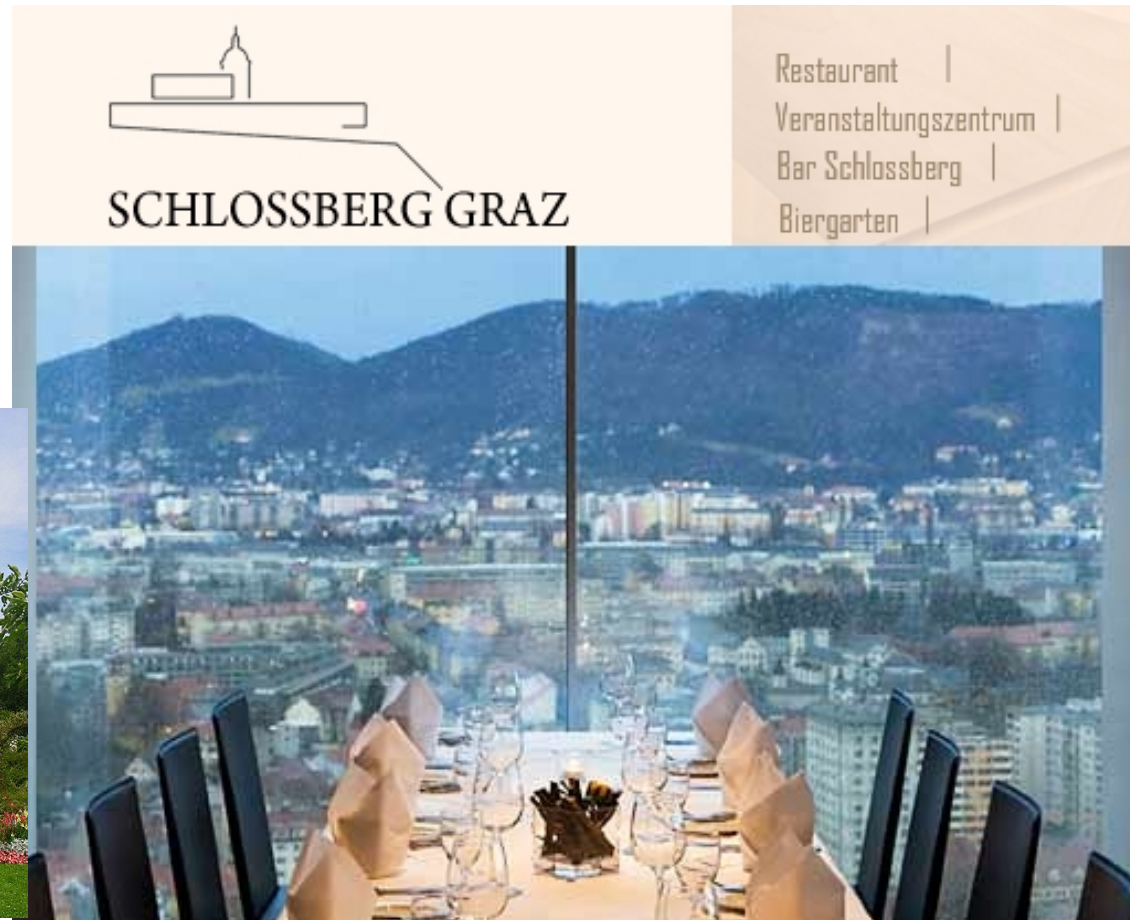
Thursday

Program (overview)

09:00 – 10:40	B4 BE01 Integration of mission design, data proc. & candidate technology	B5 A306 Future products and services	B6 A111 Roadmap and declarations
10:40 – 11:00	Coffee Break		
11:00 – 12:40	B4 BE01 ctd'	B5 A306 ctd'	B6 A111 ctd'
12:40 – 14:00	Lunch (buffet)		
14:00 – 15:40	P3 : Reports from the Breakout Sessions		
15:40 – 16:00	Coffee Break		
16:00 – 18:00	P4 : Roadmap and Declarations		
19:00 – 21:00	Workshop Dinner		

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Program (overview)



Program (overview)

Friday

09:00 – 10:40 **P5:** Steps towards the implementation: The long-term perspective

10:40 – 11:00 Coffee Break

11:00 – 12:15 **P6:** Steps towards the implementation: The short-term perspective

12:15 – 13:15 Lunch (buffet)

13:15 – 15:00 **P7:** Final discussion of roadmap and declaration

15:00 Adjourn