

MESSENGER Science Team Meeting 35

27–29 October 2015

GpDG Discipline Group Agenda – 10/20/2015

Note Discipline Group times are Tues 12:45pm – 17:30pm and Wed 8am-11am

Tuesday, 27 October

1 – 2:30 pm: Joint session of GDG-GpDG

Book Chapters – Focus on Big Picture and Future Work (*<10 min each, followed by discussion*)

- Roger Phillips – Crustal and Lithospheric Structure
- Clark Chapman – Impact Cratering on Mercury
- Paul Byrne – Mercury's Tectonics
- Jim Head – Volcanism on Mercury
- Steve Hauck – Evolution of Mercury

2:30-2:45 pm: Break

2:45 pm: GpDG session

Book Chapters

- Jean-Luc Margot – Analysis of the gravity field and spin state
- Catherine Johnson – Internal magnetic field
- Further discussion on Phillips / Hauck chapters

Science Updates

- Sander Goossens: Local Gravity Solutions
- Antonio Genova / Erwan Mazarico: Gravity, Rotation and Mercury's Ephemeris
- Juergen Oberst: Mercury rotation and topography models / Status of DLR work
- Erinna Chen: What's up with Mercury's 2nd degree shape?
- Catherine Johnson: Lithospheric magnetic fields

General Discussion

- MESSENGER Culminating Science Products
- Any other GpDG business

MESSENGER Science Team Meeting 35
27–29 October 2015
GpDG Discipline Group Agenda – 10/25/2015

Wednesday, 28 October

8:30 – 10:45 am: Joint session of GDG-GcDG-GpDG

8:30 am

Science Updates (~10 min each, followed by discussion)

- Elizabeth Frank – Origin of the High-Mg Region
- Lauren Jozwiak – Vent Morphology and Insights into Eruption Mechanisms
- Tim Grove – Constraining Mercury’s Mantle Composition

9:30 am

Book Chapters – Focus on Big Picture and Future Work (<10 min each, followed by discussion)

- Larry Nittler – Bulk Composition
- Brett Denevi – Major Geologic Units and Crustal Formation
- Patrick Peplowski – Major Geochemical Units and Crustal Formation
- Scott Murchie – Spectral Reflectance Constraints on Mercury’s Surface
- Denton Ebel – Formation of Mercury

10:45-11:00 am: Break

1:45 – 2:45 pm: GpDG Plenary Science Updates

- Juergen Oberst – Topography and rotation (15 mins)
- Sander Goossens – The gravity field and orientation of Mercury after the MESSENGER mission (15 mins)
- Peter James / Erinna Chen – Compensation of topography at global and regional scales (30 mins)