Mapping Mercury’s Debussy Quadrangle and Exploration of Volcanic Vents on a Shrinking World

Thesis

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Appendix 1: Geological Maps of The Debussy Quadrangle (H-14) of Mercury

Contents:
Page 1: Geological Map of The Debussy Quadrangle (H-14) of Mercury (5-Class Crater Categorisation)
Page 2: Geological Map of The Debussy Quadrangle (H-14) of Mercury (4-Class Crater Categorisation)
Geological Map of The Debussy Quadrangle (H-14) of Mercury (5-Class Crater Categorisation)

By

D. L. Pegg, D. A. Rothery, M. R. Balme, and S. J. Conway

This map is the result of a joint study by Mont Royal University, University of New Brunswick, and University of Kent. The map was produced using geological data provided by NASA and the University of Kent. The map was produced using geological data provided by NASA and the University of Kent.

Superficial Units

- Rembrandt Plains
- Rembrandt Hummocky Material
- Rembrandt Ring Material
- Rembrandt Impact Basin
- Rembrandt Crater Materials

Plains Units

- Rembrandt Plains
- Rembrandt Hummocky Material
- Rembrandt Impact Basin
- Rembrandt Crater Materials

Correlation of Units

- Rembrandt Plains
- Rembrandt Hummocky Material
- Rembrandt Impact Basin
- Rembrandt Crater Materials

Alignment of Structures

- Rembrandt Plains
- Rembrandt Hummocky Material
- Rembrandt Impact Basin
- Rembrandt Crater Materials

Projection: Lambert Conformal Conic
Central meridian: 45°E
Standard parallel 1: 45°N
Standard parallel 2: 30°N
Spheroid radius: 2440 km

The map was produced using geological data provided by NASA and the University of Kent. The map was produced using geological data provided by NASA and the University of Kent.
Geological Map of The Debussy Quadrangle (H-14) of Mercury (3-Class Crater Categorisation)

**Superficial Units**
- Plains
- Remnant Units
- Crater Materials

**Plains Units**
- High Albedo Features
- Medium Albedo Features
- Low Albedo Features

**Remnant Units**
- Remnant Units A
- Remnant Units B
- Remnant Units C

**Crater Materials**
- Fresh Craters
- Old Craters
- Highly Altered Craters

**Location of Quadrangle**
The Locations of 14 The Debussy quadrangle on Mercury. Shown on the "global color mosaic"[1] using a Robinson projection.

Projection: Lambert Conformal Conic
- Central meridian: 45°E
- Standard parallel 1: 10°N
- Standard parallel 2: 58°N
- Spheroid radius: 2440 km

Reference:
D. L. Pegg, D. A. Rothery, M. R. Balme, and S. J. Conway
"Discovery of the Debussy Quadrangle on Mercury: 3-Class Crater Categorisation"