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

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Selene 1: October 2008

The Location of H-14 The Debussy quadrangle on Mercury. Shown on the "global color mosaic" [1] using a Balthazar projection.

Superficial Units
- High crest crests, high relief, steep slopes, often have bright deposits on floors
- Wide, shallow basins, many in the floor are radial in structure, bright deposits on floors
- Wide, flat floors, bright deposits on floors
- Low relief crests, low relief, slopes often have bright deposits on floors
- Low relief crests, low relief, slopes often have dark deposits on floors

Plains Units
- Wide, shallow basins, many in the floor are radial in structure, bright deposits on floors
- Wide, flat floors, bright deposits on floors
- Low relief crests, low relief, slopes often have bright deposits on floors
- Low relief crests, low relief, slopes often have dark deposits on floors

Rembrandt Units
- Wide, shallow basins, many in the floor are radial in structure, bright deposits on floors
- Wide, flat floors, bright deposits on floors
- Low relief crests, low relief, slopes often have bright deposits on floors
- Low relief crests, low relief, slopes often have dark deposits on floors

Crater Materials
- Sharp, continuous, radially textured rings, craters less than 1 km in diameter are not present
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Projection: Lambert Conformal Conic
Central meridian: 45°E
Standard parallel: 30°N
Standard parallel 2: 33°N
Spheroid radius: 2440 km

Correlation of Units

Alignment of Structures

The Location of H-14 The Debussy quadrangle on Mercury. Shown on the "global color mosaic" [1] using a Balthazar projection.
Planet. Sci 47, abstract #1264.


Geological Map of The Debussy Quadrangle (H-14) of Mercury (3-Class Crater Categorisation)

Projection: Lambert Conformal Conic
Central meridian: 45°E
Standard parallel 1: 30°N
Standard parallel 2: 58°N
Spheroid radius: 2440 km