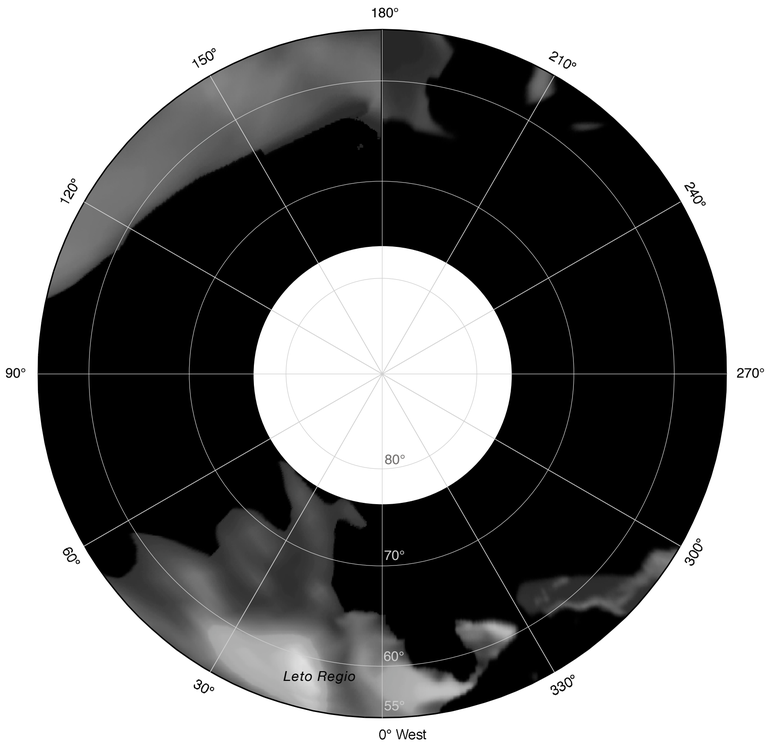
Semi-controlled Mosaic of Phoebe



NORTH POLAR REGION

Polar Stereographic Projection

SCALE 1:631,372 (1 mm = 0.631372 km) at 90° latitude

0 10 20 30km

Map sheet designation

Sp Phoebe (Saturnian satellite)
1M Scale 1:1,000,000
SMN Semi-controlled Mosaic with Nomenclature

Index of the Cassini images

N1465636203 N1465638175 N1465640995 N1465641843
N1465643815 N1465644359 N1465646635 N1465649455
N1465652275 N1465652463 N1465661954 N1465664794
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N1465676993 N1465677100 N1465677211 N1465677386
N1465677447 N1465679337 N1465679380 N1465700301
N1465700359 N1465703980 N1465714401 N1465717221
N1465726540 N1465731321

Image processing

- Radiometric correction
- Geometric correction
- Photogrammetric adjustment of the pointing data using Limb-fitting techniques [3]
- Map projection
- Image mosaicking

Map projection

From -90° to -55° latitude:
Stereographic projection centered at -90° latitude
Map Scale at -90°: 1:631,372

From -57° to 57° latitude:
Mercator projection centered at 0° latitude, 0° West longitude
Map Scale at 0°: 1:1,000,000

From 55° to 90° latitude
Stereographic projection centered at 90° latitude
Map Scale at 90°: 1:631,372

Adopted figure: Sphere
Radius: 106.8 km

Grid system:
Planetocentric latitude, West longitude

References

1. Porco, C.C.; West, R.A.; Squyres, S.; McEwen, A.; Thomas, P.; Murray, C.D.; Delgenio, A.; Ingersoll, A.P.; Johnson, T.V.; Neukum, G.; Veverka, J.; Dones, L.; Brahic, A.; Burns, J.A.; Haemmerle, V.; Knowles, B.; Dawson, D.; Roatsch, T.; Beurle, K., and Owen, W.

   Cassini Imaging Science: Instrument Characteristics and Capabilities and Anticipated Scientific Investigations at Saturn, Space Science Reviews 115, 363-497, 2004.

2. Porco, C.C.; West, R.A.; Squyres, S.; McEwen,A.; Thomas, P.; Murray, C.D.; Delgenio, A.; Ingersoll, A.P.; Johnson, T.V.; Neukum, G.; Veverka, J.; Dones, L.; Brahic, A.; Burns, J.A.; Haemmerle, V.; Knowles, B.; Dawson, D.; Roatsch, T.; Beurle, K., and Owen, W.

   Cassini Imaging Science: Initial Results on Phoebe and Iapetus, Science 307, 1237-1242, 2005.

3. Roatsch, T.; Wählisch, M.; Scholten, F.; Hoffmeister, A.; Matz, K.-D.; Denk, T.; Neukum, G.; Thomas, P.; Helfenstein, P., and Porco, C.C.

   Mapping of the icy Saturnian satellites: First results from Cassini-ISS, Planetary Space Science 2006, in press.

We greatly appreciate helpful discussions with R. Kirk and J. Blue (USGS).

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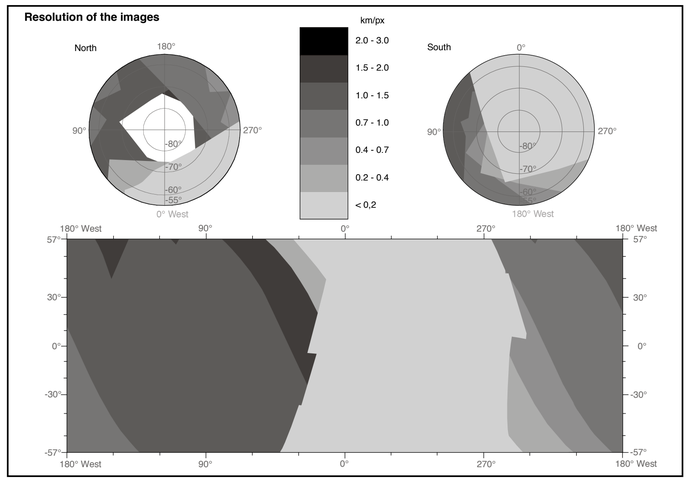
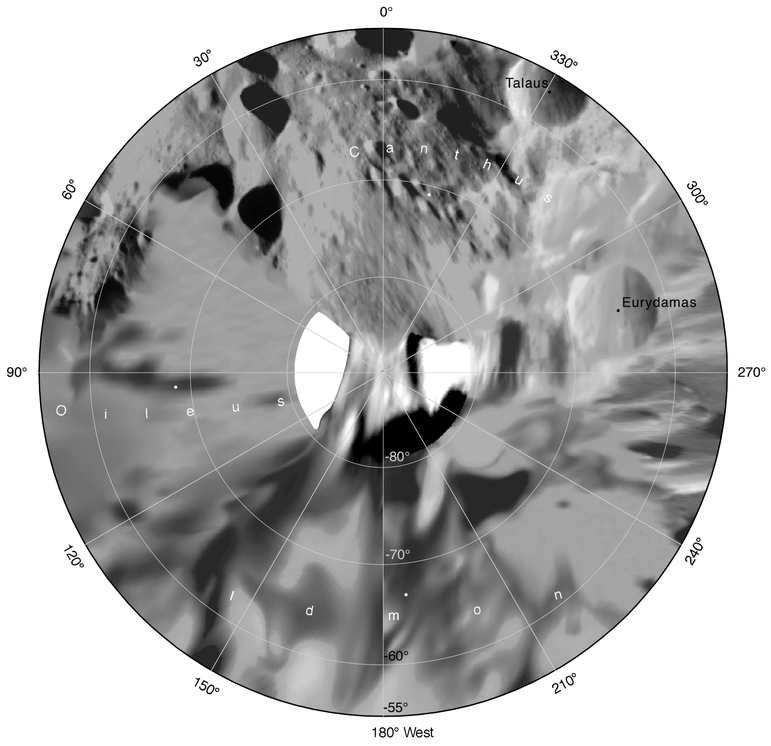




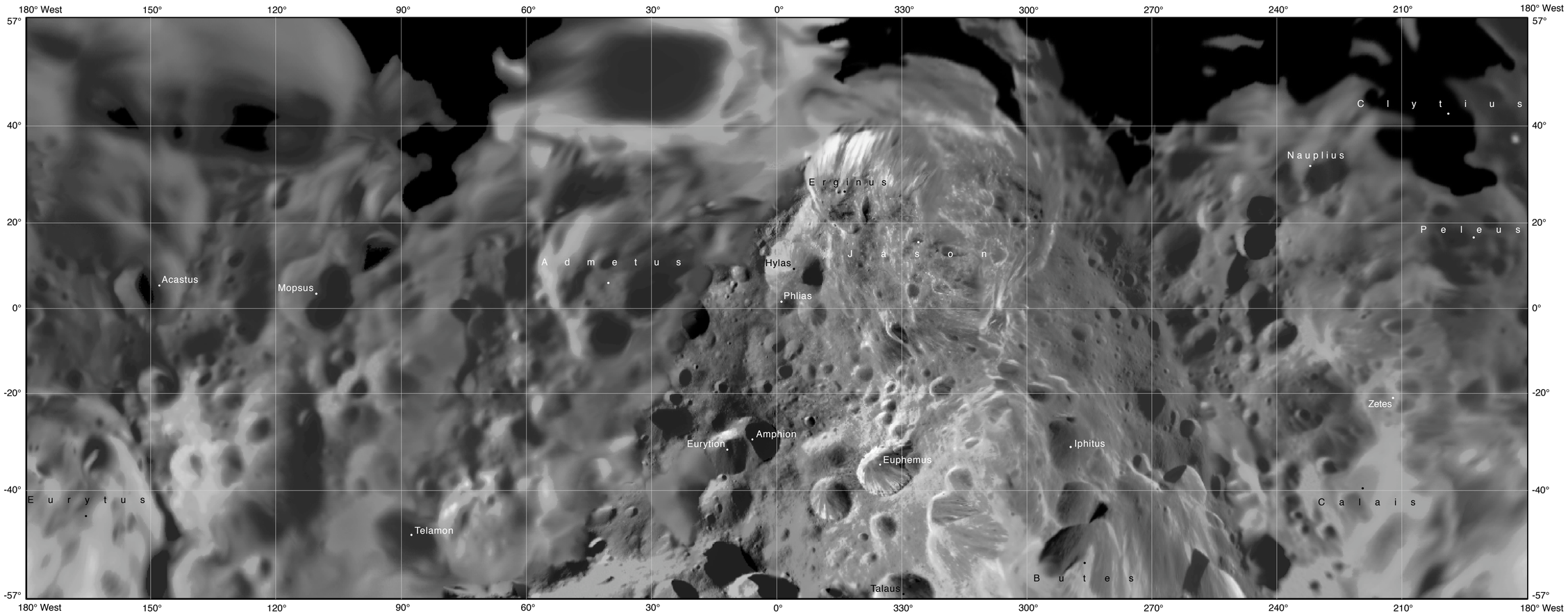
SOUTH POLAR REGION

Polar Stereographic Projection

SCALE 1:631,372 (1 mm = 0.631372 km) at -90° latitude

0 10 20 30km

North



South

Mercator Projection

SCALE 1:1,000,000 (1 mm = 1 km) at 0° latitude

0 10 20 30 40 50 km

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