Semi-controlled Mosaic of Dione

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GENERAL NOTES
This map sheet is the 8th of 15 -cardboard circles covering the entire surface of Dione at a nominal scale of 1:1,000,000. The source of map data are the Cassini Imaging experiment (Porco et al., 2006).

Captain Paganus is a prominent 56x400 km region on the Saturnian system. This region contains the Galileo, Dione, and Encke grooves. The grooves are up to 1 km high and are located in the north polar region. The grooves are thought to be the result of tidal stretching and compression of the moon by Saturn's gravity. The grooves are named after the Greek god Paganus, who is associated with the planet Saturn.

The map sheet covers an area of 1000 by 1000 km, with a scale of 1:1,000,000. The map uses a Mercator projection onto a secant cylinder using standard parallels at 13°N and 13°S. The map is divided into 1° longitude and 1° latitude sections, with each section represented by a square. The map is designed to show the topography and geology of Dione, including the grooves and other features.

For the Cassini mission, spacecraft position and camera pointing data are available in the form of SAR images. SAR images are used to create a model of the surface of the moon, which is then used to calculate the surface gravity and other properties. The model is then used to create a map of the surface, which is then used to create a map of the topography and geology.

REFERENCE