High Resolution Rhea Atlas derived from Cassini-ISS images. Thomas Roatsch[1*], Elke Kersten[1], Marita Wählisch[1], Angelika Hoffmeister[1], Roland. Wagner[1], Gerhard Neukum[2], and C.arolyn Porco[3].

[1]Institute of Planetary Research, German Aerospace Center (DLR), Berlin, Germany, [2]Remote Sensing of the Earth and Planets, Freie Universitaet Berlin, Germany, [3]CICLOPS, Space Science Institute, Boulder, CO. (), [*]Corresponding author (Fax: +493067055402, Email adress:Thomas.Roatsch@dlr.de)

The Cassini Imaging Science Sub-system (ISS) acquired many high-resolution images (< 1 km/pixel) during close flybys of Rhea in 2005 and 2007. We combined these images with lower-resolution coverage and a few images taken by Voyager cameras to produce a high-resolution (400 m/pixel) semi-controlled mosaic of Rhea. This global mosaic is the baseline for a high-resolution Rhea atlas that consists of 15 tiles each mapped at a scale of 1: 1,500,000. This Rhea atlas is the final part in the set of atlases of the medium-sized satellites of Saturn. A few examples of the map tiles will be shown in this presentation. The nomenclature used in this atlas was suggested by the Cassini-ISS team and is currently under evaluation by the International Astronomical Union (IAU). The whole atlas will become available to the public through the Imaging Team's website (http://ciclops.org/maps/).