



Validation of SENTINEL 3A and 3B modeling for precise orbit determination

Anton Reinhold, Rolf Koenig, and Hans Karl Neumayer

GFZ German Research Centre for Geosciences, Oberpfaffenhofen, Germany (areinh@gfz-potsdam.de)

As a part of our engagement within the International DORIS Service (IDS) of the International Association of Geodesy (IAG) we have started to integrate the precise orbit determination (POD) of Sentinel-3 constellation to our orbit determination software EPOS-OC. For POD processing of SENTINEL 3A and 3B we adopted the new RINEX format of Doppler Orbitography and Radiopositioning Integrated by Satellite (DORIS) observations. Further we validated a macro model of both satellites, tested maneuver modeling and applied attitude information. Also state of the art models and standards were invented to the POD processing. The results will be presented and characterized in form of orbital fits and orbit comparisons.