In-flight calibration/validation of ENVISAT and JASON radiometers

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Calibration methodology

- Extraction of in-flight ENVISAT and JASON brightness temperatures
- Selection of radiometers measurements between 0 AM and 2 PM
- Calibration of brightness temperatures
- Simulation of brightness temperatures and backscattering coefficients
- Regression for the computation of the algorithms

Selection of meshes for which measurements are available

- Average of measured brightness temperatures in each mesh
- Evacuation of cloudy meshes
- Selection of in-flight measurements and simulations of brightness temperatures
- Selection of meshes for which measurements are available

Calibration over continental areas

- Comparison between measurements and simulations for brightness temperatures
- Calibration over continental areas
- Intercomparison over ocean

Intercalibration over ocean

- Comparison of brightness temperatures over South Pole
- Comparison of brightness temperatures over ocean

Table of calibration results:

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