

## 11. Copernicus POD QWG Meeting in Bern

On June 21-23, 2022, the 11th meeting of the Copernicus Precise Orbit Determination (POD) Quality Working Group (QWG) took place at the University of Bern. Copernicus is the European Union's Earth observation program and is based on satellite measurements of the Sentinel fleet and other satellite missions. The Astronomical Institute of the University of Bern (AIUB) is a member of the POD QWG and contributes to a steady improvement of precise orbit determination. In regular intervals, it computes and delivers orbits for all Sentinel satellites to validate the official orbit products.

Three years after the last in-person meeting at DLR in Oberpfaffenhofen and after two virtual meetings the last two years due to the pandemic, this year the QWG members could meet in person again. During three days many presentations and lively discussions were used to exchange on the current status of the different Sentinel missions, on recent progress, problems and questions in particular related to precise orbit determination of the Sentinel satellites and on future developments and challenges. A focus of intensive discussion was especially the mission Sentinel-6, which was launched in November 2020, and which will perform precise and global radar altimetry measurements of sea level and its rise until the 2030ies for Copernicus. The precise orbit positions required for these measurements are derived using observations of the Global Navigation Satellite Systems GPS and Galileo, as well as DORIS (Doppler Orbitography and Radiopositioning Integrated by Satellite).