EXPORTS North Atlantic HyperSAS data processing Nils Haëntjens and Emmanuel Boss June 10, 2022

Revision 2 from June 10, 2022:

Raw data from pySAS was re-exported with the latest version of pySAS (v1.0.0) which fixed GPS coordinates and invalid Satlantic timestamp. Exported data was then reprocessed with the latest version of HyperInSPACE (V1.1.1) adjusting the following parameters.

- Absolute Rotator Angle Filter: -110 to 110 deg
- Relative Solar Azimuth Filter: 90 to 140 deg
- Default Deglitch Data parameters were slightly adjusted (see file headers for specific value used)
- L2 Sky/Sun glint Correction: Mobley (1999)
- L2 NIR Residual Correction: SimSpec.Ruddick et al. (2006)

Revision 1 from March 1, 2022:

Fixed incorrect latitude during data export. Now using the ships' (RRS James Cook) gps instead of pySAS' gps.

Revision 0 from Oct 22, 2021:

Data was collected by the pySAS tower built by Nils Haëntjens equipped with the Satlantic HyperSAS radiometers. Data was then processed from engineering units to calibrated and corrected remote sensing reflectance (Rrs) with HyperInSPACE software from Dirk Aurin (commit: 79c2d83f14387ddb3d687d1ba0137c4e5c136862).

Calibration files, pySAS configuration, and HyperInSPACE configuration used for data processing are included in the submission.