EPS-SG IASI-NG L1D Test Data

The L1D test data set is generated using the IASI-NG L1D IPP (In-house Prototype processor) using L1C test data and auxiliary data as input. The auxiliary data (IAS-1D-AUX_EIGV and IAS_1D_AUX_PCCC), contains the IASI-NG eigenvectors and the static parameters to configurate the Principal Component Compression.

The L1D test data contains in netcdf format the same information of the L1C but the radiance is compressed by using Principal Components. The IPP processor produces the auxiliary data (IAS_1D_AUX_OUTL) file, contains the spectra for which the PC compression results in residual RMS which is higher than expected. Furthermore, AUX_OUTL contains the mean and standard deviation of the compression residuals computed over all non-outlier spectra of the output product.

Two simulated successive orbits are available:

1st orbit: 2007/09/12 from 08:43 to 10:21

2nd orbit: 2007/09/12 from 10:21 to 12:02

2/4 of orbit are selected, showed in the following figure and specified in the table.

Coverage and Validity of the data:

09:53:26 12/09/2007 - 10:24:09 12/09/2007

11:36:57 12/09/2007 - 12:02:093 12/09/2007

They cover a variety of scene type for testing purposes (clear, cloudy, land, sea, snow/ice, day and night etc.). This version of Test Data delivery encompasses a nominal global scenario (2/4 orbit).

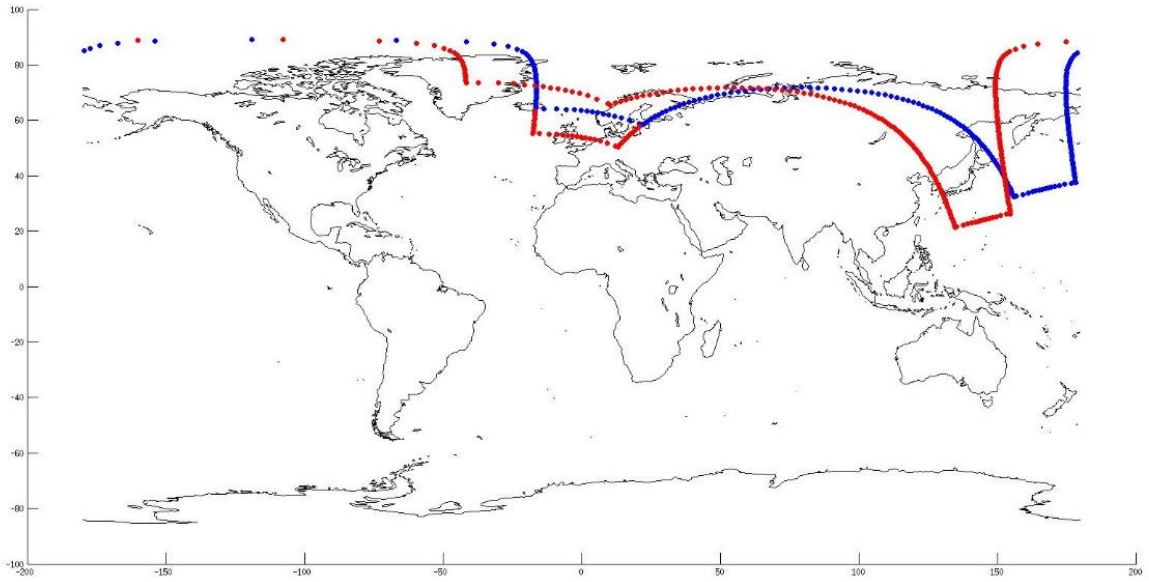

Figure 1: Illustration of the spatial coverage of the L1D IASI-NG granules. The blue dots represent the 1st orbit and the red ones the 2nd orbit.

Issues: The L1D test data product does not follow completely the L1D Product Format Specification v3C since some variables have to be copied from the L1C input data. Please contact ops@eumetsat.int if you have any questions.