

IDEAS Daily Report for IOP data:

<u>13/04/2014</u>



| CRYDSAT  | IDEAS Daily Report for IC                                    | <u>DP data: 13/04/2014</u>   | I CICIATO ST                 |
|--|--|--|------------------------------|
|  |  | 1. Overview  |                              |
|  |  |  |                              |
| Report Production Date:  | 16-Apr-2014  | Check  | Status                       |
|  |  | Server check: science-pds.cryosat.esa.int                            | Nominal                      |
| Data Used:   | Intermediate Ocean Products (IOP)<br>L1B and L2 Science Data | Server check: calval-pds.cryosat.esa.int<br>Product Software Check   | Nominal<br>Nominal           |
|  | ETD UNVEZ OUCHOC DALA  | Product Software Check<br>Product Format Check                       | Nominal                      |
|  |  | Product Header Analysis  | Nominal                      |
|  |  | Auxiliary Data File Usage Check                                      | Nominal                      |
|  |  | Auxiliary Correction Error Check                                     | Nominal                      |
|  |  | Measurement Confidence Data Check                                    | See Section 4.6, 5.5 and 5.6 |
| ission / Instrument News<br>12-Apr-2014 None<br>13-Apr-2014 None<br>14-Apr-2014 Nothing planned  | d  | 2. Global Coverage   |                              |
| Global   | I Coverage (north pole view)                                 | Global Cover   | age (south pole view)        |
| Contraction of the second seco |  | Global Coverage  |                              |
|  |  |  | Mode Coverage                |
|  | 3.   | Instrument Configuration   |                              |
| ne SIRAL instrument configura  | tion for the day of acquisition is provided below.           |  |                              |
| SIRAL instrument(s) in   | use: SIRAL - A   |  |                              |
|  | 4. IOP   | Level 1B Data Quality Check  |                              |
| 1 L1B Product Form   | nat Check  |  |                              |
|  | acked from the science server is checked to ens              | sure it consists of both an XML header file (.HDR) and a binary      | product file ( DBL).         |
| ach product retrieved and upp  | active norm the colonice server, is checked to ens           | sale is condicte of boar an Ame neader file (.11Dit) and a billidi y |                              |
|  | <b>rs:</b> 0   |  |                              |
| mber of products with error  |  |  |                              |
| umber of products with error<br>2 L1B Product Head   | ler Analysis   | PH in order to identify any inconsistencies and/or errors raised     |                              |

| Tools are duet to also also if for an instantian D. (1990) | t Description with represent to a new determined baseline and also to shart the vertility of August Data Files to serve t                 |
|--|---|
| ach product is checked for missing Data Se                 | et Descriptors with repsect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.               |
| tumber of products with errors.                            |   |
| 4.4 L1B Auxiliary Correction E                             | rror Check  |
| Each product is checked to detect auxiliary of             | orrections flagged by the ground-station processing chain as missing or containing errors.  |
| Number of products with errors:                            | 0   |
| 4.5 L1B Measurement Confide                                | nce Data Check  |
| CryoSat L1B data includes a measurement of                 | confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set.                       |
| Number of products with errors:                            | 0   |
| 4.6 L1B Waveform Group Data                                | a Check   |
| CryoSat L1B data includes a waveform data                  | flag (field 65) for each measurement record. The bit value of this flag indicates any problems when set.                                  |
| oss of Echo Flag: This flag is currently set               | for a large number of products over land, indicating that the tracking echo is missing.   |
| Number of products with errors:                            | 53  |
|  | 5. IOP Level 2 Data Quality Check   |
| 5.1 L2 Product Format Check                                |   |
| Each product, retrieved and unpacked from t                | he science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL)                    |
| Number of products with errors:                            | 0   |
| 5.2 L2 Product Header Analys                               | is  |
| For all products, a series of pre-defined chec             | ks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. |
| Number of products with errors:                            | 0   |
| 5.3 L2 Auxiliary Data File Usa                             | ge Check  |
| Each product is checked for missing Data Se                | et Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.               |
| Number of products with errors:                            | 0   |
| 5.4 L2 Measurement Confiden                                | ce Data Check   |
| CryoSat L2 data includes a quality flag (field             | 14) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chains.   |
| Number of products with errors:                            | 0   |
| 5.5 L2 Range Measurement Cl                                | neck  |
| -  | asurements flagged by the processing chain as missing or containing errors.   |
|  | flag is currently set for products over land and sea ice, but this is to be expected.   |
| ce Range Averaging Status Flag: This flag                  | g is currently set for some products over land and continental ice.   |
| Number of products with errors:                            | 224   |
| 5.6 L2 SWH and Backscatter M                               | /leasurement Check  |
|  | rs related to SWH and sigma0 that are flagged by the processing chain as missing or containing errors.                                    |
|  |   |

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for some products over land and continental ice. 196

Number of products with errors: