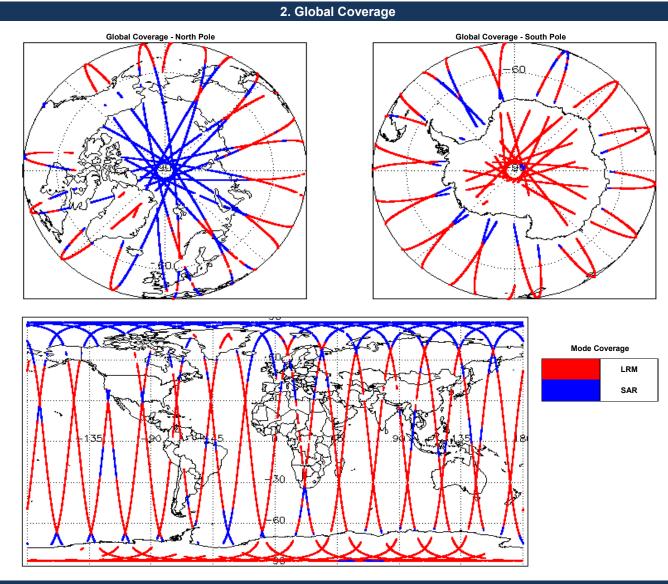


IDEAS+ Daily Report for GOP data:

<u>20/03/2017</u>

| | | 1. Overview | |
|-----------------------------|----------------------------------|---|-----------------------------------|
| | 00.4.0047 | Check | Status |
| Report Production Date: | 20-Apr-2017 | Server check: science-pds.cryosat.esa.int | Nominal |
| Processor Used: | CryoSat Ocean Processor | Server check: calval-pds.cryosat.esa.int | Nominal |
| | | Product Software Check | Nominal |
| Data Used: | Geophysical Ocean Products (GOP) | Product Format Check | Nominal |
| Data Osed. | L1B and L2 Science Data | Product Header Analysis | Nominal |
| | | Auxiliary Data File Usage Check | Nominal |
| | | Auxiliary Correction Error Check | See Section 5.4 |
| | | Measurement Confidence Data Check | See Section 4.6, 5.6, 5.7 and 5.8 |
| | | · · · · | |
| Mission / Instrument News | | | |
| 19-Mar-2017 None | | | |
| 20-Mar-2017 None | | | |
| 21-Mar-2017 Nothing planned | | | |



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:

SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL). Number of products with errors: 0

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks 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

| 4.3 L1B Auxilary Data File Usage Check | | |
|--|---|---|
| Each product is checked for missing Data Set Descriptors with respect to a pr | e-determined baseline and also to che | ck the validity of Auxiliary Data Files is correct. |
| Number of products with errors: 0 | | |
| 4.4 L1B Auxiliary Correction Error Check | | |
| CryoSat L1B data includes a correction error flag (field 60) for each measurem | ent record. The bit value of this flag in | dicates any problems when set. |
| Number of products with errors: 0 | | |
| 4.5 L1B Measurement Confidence Data Check | | |
| CryoSat L1B data includes a measurement 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 Check | | |
| CryoSat L1B data includes a waveform data flag (field 65) for each measurem | ent record. The bit value of this flag in | licates any problems when set. |
| .oss of Echo Flag: This flag is currently set for products over land, but this is | to be expected. | |
| Number of products with errors: 10 | | |
| roduct | Test Failed | Description |
| S_OFFL_SIR_GOP_1B_20170320T000038_20170320T000630_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170320T034458_20170320T035516_B001 S_OFFL_SIR_GOP_1B_20170320T083455_20170320T091112_B001 | Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170320T161820_20170320T163436_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170320T164811_20170320T165002_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170320T213545_20170320T213742_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170320T213918_20170320T214723_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170320T230500_20170320T230855_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170320T231059_20170320T231233_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170320T231402_20170320T231645_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| 5 6 | OP Level 2 Data Quali | ty Check |
| | OP Level 2 Data Quali | |
| 5.1 L2 Product Format Check | | |
| Each product, retrieved and unpacked from the science server, is checked to | ensure it consists of both an XML hea | der file (.HDR) and a product file (.DBL). |
| Number of products with errors: 0 | | |
| | | |
| 5.2 L2 Product Header Analysis | | |
| For all products, a series of pre-defined checks are performed on the MPH and | J SPH in order to identify any inconsist | encies and/or errors raised by the ground-segment processing chain. |
| Number of products with errors: 0 | | |
| 5.3 L2 Auxiliary Data File Usage Check | | |
| Each product is checked for missing Data Set Descriptors with respect to a pr | e-determined baseline and also to che | ck the validity of Auxiliary Data Files is correct. |
| Nind Model File Usage: This file is currently not included in all L2 products. | | |
| Number of products with errors: 0 | | |
| | | |
| 5.4 L2 Auxiliary Correction Error Check | | |
| For all products, the auxiliary corrections within the Geophysical Group are che | ecked for the default error value (3276 | |
| Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise fr | | 7). |
| | | 7). ed due to surface type. All common flags are summarised in the list below, |
| | om this test. | , |
| Sea State Bias Error: The error value is currently set for products over land a | rom this test. and sea ice, but this is to be expected. | ed due to surface type. All common flags are summarised in the list below, |
| Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov | rom this test. and sea ice, but this is to be expected. | ed due to surface type. All common flags are summarised in the list below, |
| Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 16 | om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be ex | ed due to surface type. All common flags are summarised in the list below, «pected. |
| Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 16 Product | rom this test. and sea ice, but this is to be expected. | ed due to surface type. All common flags are summarised in the list below, opected. Description FS1 There is an error with the Total Geocentric Ocean Tide height (solution |
| Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 16 Product CS_OFFL_SIR_GOP_2_20170320T000038_20170320T000630_B001 | rom this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be ex Test Failed Total Geocentric Ocean Tide (F | Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records |
| Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 16 Product CS_OFFL_SIR_GOP_2_20170320T000038_20170320T000630_B001 | Test Failed | due to surface type. All common flags are summarised in the list below, depected. Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records |
| See State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for products over land a Minimetric Wind Speed Error: The error value is currently set for product Set Speed Error: The error value is currently set for product Set Set Set Set Set Set Set Set Set Se | rom this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be ex Test Failed Total Geocentric Ocean Tide (F | due to surface type. All common flags are summarised in the list below, depected. Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records |
| See State Bias Error: The error value is currently set for products over land a Nitimetric Wind Speed Error: The error value is currently set for products over land a Nitimetric Wind Speed Error: The error value is currently set for products over land a Nitimetric Wind Speed Error: The error value is currently set for products over land a Nitimetric Wind Speed Error: The error value is currently set for products over land a Nitimetric Wind Speed Error: The error value is currently set for products over land a Nitimetric Wind Speed Error: The error value is currently set for products over land a Nitimetric Wind Speed Error: The error value is currently set for product over land a Nitimetric Wind Speed Error: The error value is currently set for product set for product set for product set is currently set for product set for product set for product set is currently set for product set is currently set for product set for product set for product set is currently set for product set for product set for product set is currently set for product | Total Geocentric Ocean Tide (F Total Geocentric Ocean Tide (F Total Geocentric Ocean Tide (F | ed due to surface type. All common flags are summarised in the list below, equation Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non-Tide There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records |
| See State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Milimetric Wind Speed Error: The error value is currently set for products over land a currently set for product over land a currently set for product set of product 16 Product 16 Product 10 CS_OFFL_SIR_GOP_2_20170320T000038_20170320T000630_B001 20 CS_OFFL_SIR_GOP_2_20170320T021845_20170320T023349_B001 20 CS_OFFL_SIR_GOP_2_20170320T034458_20170320T035516_B001 20 CS_OFFL_SIR_GOP_2_20170320T044540_20170320T045838_B001 20 | Test Failed Total Geocentric Ocean Tide (F Equilibrium Long Period Ocean | due to surface type. All common flags are summarised in the list below, opected. Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non-Tide There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records |
| See State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 16 Product 16 CS_OFFL_SIR_GOP_2_20170320T000038_20170320T000630_B001 20 CS_OFFL_SIR_GOP_2_20170320T021845_20170320T023349_B001 20 CS_OFFL_SIR_GOP_2_20170320T034458_20170320T035516_B001 20 CS_OFFL_SIR_GOP_2_20170320T044540_20170320T045838_B001 20 CS_OFFL_SIR_GOP_2_20170320T050737_20170320T051444_B001 20 | Test Failed Total Geocentric Ocean Tide (F | Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records |
| See State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 16 Product 16 CS_OFFL_SIR_GOP_2_20170320T000038_20170320T000630_B001 20 CS_OFFL_SIR_GOP_2_20170320T021845_20170320T023349_B001 20 CS_OFFL_SIR_GOP_2_20170320T034458_20170320T035516_B001 20 CS_OFFL_SIR_GOP_2_20170320T044540_20170320T045838_B001 20 CS_OFFL_SIR_GOP_2_20170320T050737_20170320T051444_B001 20 | Total Geocentric Ocean Tide (F Equilibrium Long Period Ocean | ed due to surface type. All common flags are summarised in the list below, opected. ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES), Non-Tide There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES), Non-Tide There is an error with the Total Geocentric Ocean Tide height for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES), Non-There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES), Non-There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES), Non-There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height |
| Sea State Bias Error: The error value is currently set for products over land a Numeric Wind Speed Error: The error value is currently set for products over land a solutimetric Wind Speed Error: The error value is currently set for products over land a solutimetric Wind Speed Error: The error value is currently set for products over land a solution of product with errors: 16 16 Product 16 SS_OFFL_SIR_GOP_220170320T000038_20170320T000630_B001 20 SS_OFFL_SIR_GOP_220170320T021845_20170320T023349_B001 20 SS_OFFL_SIR_GOP_220170320T034458_20170320T035516_B001 20 SS_OFFL_SIR_GOP_220170320T044540_20170320T045838_B001 20 SS_OFFL_SIR_GOP_220170320T050737_20170320T051444_B001 20 SS_OFFL_SIR_GOP_220170320T065144_20170320T065421_B001 20 | Test Failed Total Geocentric Ocean Tide (F | Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equi |
| Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov. Number of products with errors: 16 Product 20 CS_OFFL_SIR_GOP_2_20170320T000038_20170320T000630_B001 0 CS_OFFL_SIR_GOP_2_20170320T021845_20170320T023349_B001 0 CS_OFFL_SIR_GOP_2_20170320T034458_20170320T035516_B001 0 CS_OFFL_SIR_GOP_2_20170320T044540_20170320T045838_B001 0 CS_OFFL_SIR_GOP_2_20170320T050737_20170320T051444_B001 0 CS_OFFL_SIR_GOP_2_20170320T065144_20170320T065421_B001 0 CS_OFFL_SIR_GOP_2_20170320T081148_20170320T081344_B001 0 | Test Failed Test Failed Total Geocentric Ocean Tide (F Total Geocentric Ocean Tide (F | Description ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records ES), Non- There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records ES), Non- There is an error with the Total Geocentric Ocean Tide height for one o more records ES), Non- There is an error with the Mean Sea Surface height and the Total Geocentric Ocean Tide height for one o more records m |
| Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 16 Product | Total Geocentric Ocean Tide (F Guilibrium Long Period Ocean Total Geocentric Ocean Tide (F Equilibrium Long Period Ocean Mean Sea Surface (2), Total Geocentric Ocean Tide (F | Description ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records ES) There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records ES) Non- FHere is an error with the Total Geocentric Ocean Tide height for one or more records ES) Non- FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equil |

| CS_OFFL_SIR_GOP_220170320T142233_20170320T143826_B001 | Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
|---|---|---|
| CS_OFFL_SIR_GOP_220170320T152857_20170320T153111_B001 | Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) |
| CS_OFFL_SIR_GOP_220170320T161820_20170320T163436_B001 | Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170320T163902_20170320T163958_B001 | | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170320T165631_20170320T170816_B001 | Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170320T183027_20170320T183302_B001 | Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170320T184003_20170320T190722_B001 | Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean (field 25) and Ice (field 30) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 36

Number of products with errors:

| Product | Test Failed | Description |
|--|----------------------------|---|
| CS_OFFL_SIR_GOP_220170320T005946_20170320T010142_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T010142_20170320T010149_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T010149_20170320T010602_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T014716_20170320T014816_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T023520_20170320T024040_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T024047_20170320T024053_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T024053_20170320T024100_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T024100_20170320T024310_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T032656_20170320T032719_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T041445_20170320T041940_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T041940_20170320T041944_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T041944_20170320T041952_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T041958_20170320T042009_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T055423_20170320T055908_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T055914_20170320T055923_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170320T055929_20170320T060049_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T073412_20170320T073807_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T073812_20170320T073821_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T073828_20170320T074152_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T083208_20170320T083455_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T091236_20170320T091720_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T091726_20170320T092056_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T105225_20170320T105748_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T123153_20170320T123646_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T133259_20170320T133826_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T141359_20170320T141551_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T150755_20170320T151058_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T155250_20170320T155504_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T155545_20170320T160003_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T173041_20170320T173907_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T190945_20170320T191140_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |

| CS_OFFL_SIR_GOP_220170320T191230_20170320T191719_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
|---|----------------------------|---|
| CS_OFFL_SIR_GOP_220170320T200019_20170320T200529_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T204912_20170320T204938_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T205150_20170320T205746_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T223058_20170320T223617_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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 products over land, but this is to be expected. 29

Number of products with errors:

| Product | Test Failed | Description |
|---|----------------------------------|--|
| CS_OFFL_SIR_GOP_220170320T005946_20170320T010142_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T010149_20170320T010602_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T014716_20170320T014816_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T023520_20170320T024040_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T024053_20170320T024100_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T024100_20170320T024310_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T032656_20170320T032719_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T055423_20170320T055908_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T055929_20170320T060049_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T073412_20170320T073807_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T073812_20170320T073821_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T073828_20170320T074152_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T083208_20170320T083455_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T091236_20170320T091720_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T091726_20170320T092056_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T105225_20170320T105748_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T123153_20170320T123646_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T133259_20170320T133826_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T141359_20170320T141551_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T150755_20170320T151058_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T155250_20170320T155504_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T155545_20170320T160003_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T173041_20170320T173907_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T190945_20170320T191140_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T191230_20170320T191719_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T200019_20170320T200529_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T204912_20170320T204938_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T205150_20170320T205746_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170320T223058_20170320T223617_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| | | |

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 157

6. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | No. Products | No. QCC Reports | No. Valid | No. Warnings | No. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR_GOP_1B | 262 | 262 | 262 | 0 | 0 |
| SIR_GOP_2 | 260 | 260 | 260 | 0 | 0 |

| 6.1 QCC Errors | |
|--|---|
| Number of products with QCC errors: | 0 |
| 6.2 QCC Warnings | |
| Number of QCC reports with warnings | 0 |
| 6.3 Missing QCC Reports | |
| Number of products with missing QCC reports: | 0 |