

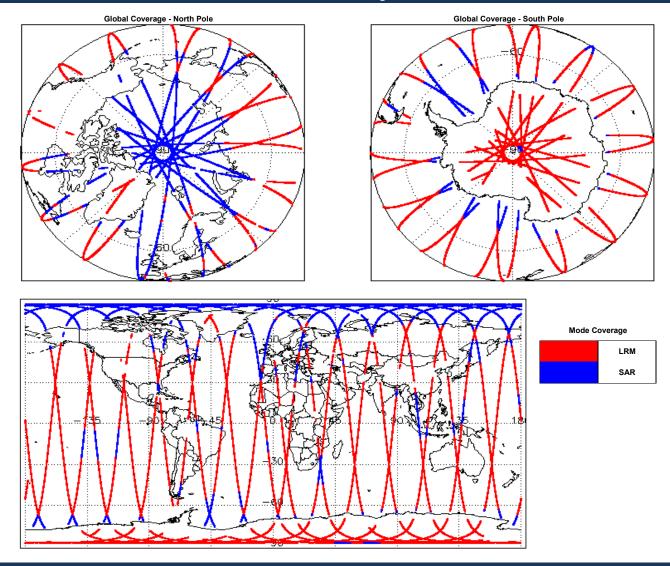
IDEAS+ Daily Report for GOP data:

<u>19/03/2017</u>

| eport Production Date: | 20-Apr-2017 | Check | Status | |
|-------------------------|---|---|-----------------------------------|--|
| Report Froduction Date. | | 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) L1B and L2 Science Data | Product Format Check | Nominal | |
| | | 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 | |

| 19-Mar-2017 | None | |
|-------------|-----------------|--|
| 20-Mar-2017 | Nothing planned | |

2. Global Coverage



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 | | |
|--|--|---|
| ach product is checked for missing Data Set Descriptors with respect to a pre- | e-determined baseline and also to check the val | idity of Auxiliary Data Files is correct. |
| umber of products with errors: 0 | | |
| .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 indicates a | ny problems when set. |
| lumber of products with errors: 0 | | |
| 4.5 L1B Measurement Confidence Data Check | | |
| CryoSat L1B data includes a measurement confidence flag (field 12) for each r | measurement record. The hit value of this flag in | ndicates any problems when set |
| Number of products with errors: 0 | neasurement record. The bit value of this hay in | lucates any problems when set. |
| | | |
| 4.6 L1B Waveform Group Data Check | | |
| CryoSat L1B data includes a waveform data flag (field 65) for each measurement | - | ny problems when set. |
| .oss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 8 | to be expected. | |
| | T | Beersteller |
| roduct S_OFFL_SIR_GOP_1B_20170319T004704_20170319T005542_B001 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170319T005616_20170319T005820_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170319T040849_20170319T041034_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170319T041929_20170319T042614_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170319T092137_20170319T092616_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170319T105231_20170319T110225_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170319T160511_20170319T160745_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170319T222723_20170319T222812_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| 5. G | OP Level 2 Data Quality Ch | eck |
| | , | |
| 5.1 L2 Product Format Check | | |
| Each product, retrieved and unpacked from the science server, is checked to e | ensure it consists of both an XML header file (.H | IDR) and a product file (.DBL). |
| Number of products with errors: 0 | | |
| 5.2 L2 Product Header Analysis | | |
| 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 pre | a determined becaling and also to about the val | iditu of Auvilian Data Files is correct |
| Wind 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 (32767). | |
| | • Level 2 products which are expected due to | o surface type. All common flags are summarised in the list below, |
| ollowed by a table highlighting any additional issues which may arise fr | e Level 2 products which are expected due to rom this test. | o surface type. All common flags are summarised in the list below, |
| ollowed by a table highlighting any additional issues which may arise fr Sea State Bias Error: The error value is currently set for products over land a | e Level 2 products which are expected due to rom this test. Ind sea ice, but this is to be expected. | o surface type. All common flags are summarised in the list below, |
| ollowed by a table highlighting any additional issues which may arise fr iea 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 | e Level 2 products which are expected due to rom this test. Ind sea ice, but this is to be expected. | o surface type. All common flags are summarised in the list below, |
| billowed by a table highlighting any additional issues which may arise fr ea State Bias Error: The error value is currently set for products over land a litimetric Wind Speed Error: The error value is currently set for products over umber of products with errors: 16 | e Level 2 products which are expected due to rom this test. Ind sea ice, but this is to be expected. | o surface type. All common flags are summarised in the list below, |
| ollowed by a table highlighting any additional issues which may arise fr Gea 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 Aumber of products with errors: 16 Product | e Level 2 products which are expected due to rom this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. | Description |
| ollowed by a table highlighting any additional issues which may arise fr 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 over Number of products with errors: 16 Product CS_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 | De Level 2 products which are expected due to from this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. | Description There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or 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 |
| ollowed by a table highlighting any additional issues which may arise fr See State Bias Error: The error value is currently set for products over land a Ntimetric Wind Speed Error: The error value is currently set for products over lands Number of products with errors: 16 Product 25_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 CS_OFFL_SIR_GOP_2_20170319T025001_20170319T025425_B001 | Level 2 products which are expected due to com this test. Ind sea ice, but this is to be expected. I and and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non- | Description There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or 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 |
| bollowed by a table highlighting any additional issues which may arise fr Gea 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 Iumber of products with errors: 16 Product SS_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 CS_OFFL_SIR_GOP_2_20170319T025001_20170319T025425_B001 CS_OFFL_SIR_GOP_2_20170319T034113_20170319T035503_B001 | P Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | Description There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or 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 There is an error with the Total Geocentric 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 |
| billowed by a table highlighting any additional issues which may arise fr Gea State Bias Error: The error value is currently set for products over land a Autimetric Wind Speed Error: The error value is currently set for products over lamber of products with errors: 16 Product 2S_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 2S_OFFL_SIR_GOP_2_20170319T025001_20170319T025425_B001 2S_OFFL_SIR_GOP_2_20170319T034113_20170319T035503_B001 2S_OFFL_SIR_GOP_2_20170319T040849_20170319T041034_B001 | Delevel 2 products which are expected due to from this test. und sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | Description There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or 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 (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 o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric 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 |
| ollowed by a table highlighting any additional issues which may arise fr 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 over lands Aumber of products with errors: 16 Product 16 CS_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 25 CS_OFFL_SIR_GOP_2_20170319T025001_20170319T025425_B001 25 CS_OFFL_SIR_GOP_2_20170319T034113_20170319T035503_B001 25 CS_OFFL_SIR_GOP_2_20170319T040849_20170319T041034_B001 25 CS_OFFL_SIR_GOP_2_20170319T041929_20170319T042614_B001 25 | Delevel 2 products which are expected due to from this test. and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | Description There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or 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 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 There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records |
| ollowed by a table highlighting any additional issues which may arise fr 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 over lands a Alumber of products with errors: 16 Product 16 CS_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 CS_OFFL_SIR_GOP_2_20170319T025001_20170319T025425_B001 CS_OFFL_SIR_GOP_2_20170319T034113_20170319T035503_B001 CS_OFFL_SIR_GOP_2_20170319T040849_20170319T041034_B001 CS_OFFL_SIR_GOP_2_20170319T041929_20170319T042614_B001 CS_OFFL_SIR_GOP_2_20170319T041929_20170319T042614_B001 CS_OFFL_SIR_GOP_2_20170319T041929_20170319T042614_B001 | Delevel 2 products which are expected due to from this test. and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | Description There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or 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 (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 for one o more records There is an error with the Total Geocentric 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 for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records |
| ollowed by a table highlighting any additional issues which may arise fr See State Bias Error: The error value is currently set for products over land a Ntimetric Wind Speed Error: The error value is currently set for products over land a Number of products with errors: 16 Product 16 CS_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 25 CS_OFFL_SIR_GOP_2_20170319T025001_20170319T025425_B001 25 CS_OFFL_SIR_GOP_2_20170319T034113_20170319T035503_B001 25 CS_OFFL_SIR_GOP_2_20170319T040849_20170319T041034_B001 25 CS_OFFL_SIR_GOP_2_20170319T041929_20170319T042614_B001 25 CS_OFFL_SIR_GOP_2_20170319T053520_20170319T054054_B001 25 CS_OFFL_SIR_GOP_2_20170319T053520_20170319T054054_B001 25 CS_OFFL_SIR_GOP_2_20170319T060345_20170319T060437_B001 25 | Delevel 2 products which are expected due to from this test. and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | Description There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or 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 (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 There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentr |
| Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise fr 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 over land a Altimetric Wind Speed 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 Altimetric Wind Speed 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 Altimetric Wind Speed 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 CS_OFFL_SIR_GOP_2_20170319T011136_20170319T014514_B001 CS_OFFL_SIR_GOP_2_20170319T025001_20170319T025425_B001 CS_OFFL_SIR_GOP_2_20170319T034113_20170319T035503_B001 CS_OFFL_SIR_GOP_2_20170319T040849_20170319T041034_B001 CS_OFFL_SIR_GOP_2_20170319T0410349_20170319T042614_B001 CS_OFFL_SIR_GOP_2_20170319T053520_20170319T042614_B001 CS_OFFL_SIR_GOP_2_20170319T060345_20170319T060437_B001 CS_OFFL_SIR_GOP_2_20170319T073618_20170319T074617_B001 CS_OFFL_SIR_GOP_2_20170319T073618_20170319T074617_B001 | Delevel 2 products which are expected due to from this test. and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | Description There is an error with the Total Geocentric Ocean Tide height (solution : FES) for one or 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 or more records 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 or 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 or more records 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 or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solut |

CS_OFFL_SIR_GOP_2__20170319T111103_20170319T111425_B001

Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

| CS_OFFL_SIR_GOP_220170319T124251_20170319T125016_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_220170319T152902_20170319T153104_B001 | Lotal Geocentric Ocean Lide (EES) | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records |
| CS_OFFL_SIR_GOP_220170319T153105_20170319T154025_B001 | Mean Sea Surface (1) | There is an error with the MSS height (solution 1) for one or more records |
| CS_OFFL_SIR_GOP_220170319T160511_20170319T160745_B001 | | 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_220170319T192949_20170319T194026_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_220170319T204612_20170319T205703_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. 33

Number of products with errors:

| Product | Test Failed | Description |
|--|----------------------------|--|
| CS_OFFL_SIR_GOP_220170319T001218_20170319T001327_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T001328_20170319T001333_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T001333_20170319T001740_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T014726_20170319T015225_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T015231_20170319T015238_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T015246_20170319T015559_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T023559_20170319T023914_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T032614_20170319T033123_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033123_20170319T033130_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033130_20170319T033136_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033137_20170319T033142_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033143_20170319T033154_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033200_20170319T033330_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T051034_20170319T051041_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T051114_20170319T051216_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T064610_20170319T064950_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T065012_20170319T065313_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T082911_20170319T083238_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T100352_20170319T100937_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T100956_20170319T101139_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T114320_20170319T114830_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T132514_20170319T132732_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T150444_20170319T150640_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T150817_20170319T151143_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T155835_20170319T160020_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T164308_20170319T164603_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T164612_20170319T165043_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T182115_20170319T182943_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T191044_20170319T191140_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T200040_20170319T200205_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T200327_20170319T200743_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170319T214238_20170319T214823_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T232143_20170319T232654_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. 25

Number of products with errors:

| Product | Test Failed | Description |
|---|----------------------------------|--|
| CS_OFFL_SIR_GOP_220170319T001218_20170319T001327_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T001333_20170319T001740_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T014726_20170319T015225_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T015246_20170319T015559_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033137_20170319T033142_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033143_20170319T033154_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T033200_20170319T033330_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T051114_20170319T051216_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T064610_20170319T064950_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T065012_20170319T065313_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T082911_20170319T083238_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T100352_20170319T100937_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T100956_20170319T101139_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T114320_20170319T114830_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T132514_20170319T132732_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T150444_20170319T150640_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T150817_20170319T151143_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T164308_20170319T164603_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T164612_20170319T165043_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T182115_20170319T182943_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T191044_20170319T191140_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T200040_20170319T200205_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T200327_20170319T200743_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T214238_20170319T214823_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170319T232143_20170319T232654_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. 149

Number of products with errors:

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 | 258 | 258 | 258 | 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 | | | | | | |