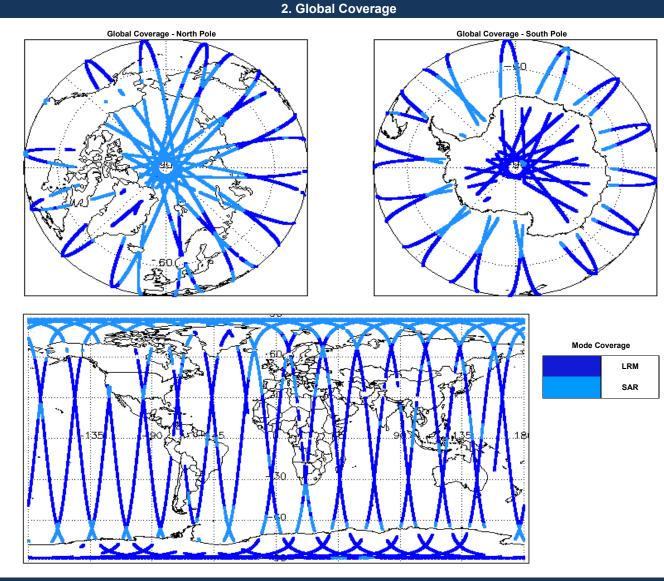


IDEAS+ Daily Report for GOP data:

<u>23/12/2015</u>

| 1. Overview | | | |
|-------------------------|--|---|-----------------------------------|
| Denest Dreduction Date: | 22-Jan-2016 | Check | Status |
| Report Production Date: | 22-Jan-2016 | Server check: science-pds.cryosat.esa.int | Nominal |
| Processor Used: | CryoSat Ocean Processor | Server check: calval-pds.cryosat.esa.int | Nominal |
| FIOCESSOI USEU. | | Product Software Check | Nominal |
| Data Used: | Geophysical Ocean Products (GOP) | Product Format Check | Nominal |
| Data Useu. | Data Used: 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 | | |
|---------------------------|---|--|
| 22-Dec-2015 | SIRAL unavailability on 22-Dec-2015 from 04:28:47 to 06:14:40 due to a planned orbit manoeuvre. | |
| 23-Dec-2015 | None | |
| 24-Dec-2015 | 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

| Each product is checked for missing Data Set Descriptors with respect to a pre | | |
|--|--|---|
| - · · · · · · · · · · · · · · · · · · · | e-determined baseline and also to check the va | alidity 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 measureme | ent record. The bit value of this flag indicates : | 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 n | neasurement 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 measureme | ent record. The bit value of this flag indicates a | iny problems when set. |
| Loss of Echo Flag: This flag is currently set for products over land, but this is | to be expected. | |
| Number of products with errors: 11 | | |
| Product | Test Failed | Description |
| CS_OFFL_SIR_GOP_1B_20151223T011317_20151223T012013_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T022539_20151223T024037_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T032823_20151223T033043_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T043234_20151223T043403_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T102345_20151223T102521_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T123246_20151223T123945_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T131316_20151223T132100_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T195637_20151223T195838_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T200739_20151223T201542_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T213323_20151223T213717_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20151223T230028_20151223T231301_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| | | |
| 5. GC | OP Level 2 Data Quality Ch | IECK |
| 5.2 L2 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 a | and/or errors raised by the ground-segment processing chain. |
| Number of products with errors: 0 | | |
| 5.3 L2 Auxiliary Data File Usage Check | | |
| 5.5 LZ Auxiliary Data File Osage Check | | |
| | | |
| Each product is checked for missing Data Set Descriptors with respect to a pre | -determined baseline and also to check the va | alidity of Auxiliary Data Files is correct. |
| Wind Model File Usage: This file is currently not included in all L2 products. | -determined baseline and also to check the va | alidity of Auxiliary Data Files is correct. |
| Wind Model File Usage: This file is currently not included in all L2 products. | -determined baseline and also to check the va | alidity of Auxiliary Data Files is correct. |
| Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 | e-determined baseline and also to check the va | alidity of Auxiliary 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 | | alidity of Auxiliary 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 cher | cked for the default error value (32767). | |
| 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 chec Currently, there are two common auxiliary correction errors raised in the | cked for the default error value (32767). Level 2 products which are expected due t | |
| 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 chec Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for | cked for the default error value (32767). Level 2 products which are expected due f om this test. | |
| 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 cher Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land ar | cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected. | |
| 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 cher Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from Sea State Bias Error: The error value is currently set for products over land are Altimetric Wind Speed Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: Sea State Bia | cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected. | |
| 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 chere Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land ar Attimetric Wind Speed Error: The error value is currently set for products over land ar Number of products with errors: 20 | cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected. | |
| 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 chere. Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from Sea State Bias Error: The error value is currently set for products over land and altimetric Wind Speed Error: The error value is currently set for products over land and Altimetric Wind Speed Error: Number of products with errors: 20 Product 20 | cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected. er land and sea ice, but this is to be expected. | to surface type. All common flags are summarised in the list below, Description |
| 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 checologue by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the error value is currently set for products over land and antimetric Wind Speed Error: The error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for product so the product so the error set of product | cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. | to surface type. All common flags are summarised in the list below, Description There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2 There is an error with the Total Geocentric Ocean Tide height (solution 2 |
| 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 chere Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land ar Altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: 20 Product 20 CS_OFFL_SIR_GOP_2_20151223T004659_20151223T010141_B001 CS_OFFL_SIR_GOP_2_20151223T021319_20151223T022336_B001 | cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind 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), Nor | Description There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records 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 |
| 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 chere Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from Sea State Bias Error: The error value is currently set for products over land are Altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: 20 Product 20 CS_OFFL_SIR_GOP_220151223T004659_20151223T010141_B001 CS_OFFL_SIR_GOP_220151223T021319_20151223T022336_B001 CS_OFFL_SIR_GOP_220151223T022539_20151223T024037_B001 CS_OFFL_SIR_GOP_220151223T022539_20151223T024037_B001 | cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind 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), Noi Equilibrium Long Period Ocean Tide | Description There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records 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 There is an error with the Geoid height for one or more records There is an error with the Geoid height for one or more records 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 There is an error with the Geoid height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records |
| 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 chected of the second s | cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind 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), Nor Equilibrium Long Period Ocean Tide Geoid Height | Description There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records |
| 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 chected followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: CS_OFFL_SIR_GOP_2_20151223T004659_20151223T010141_B001 CS_OFFL_SIR_GOP_2_20151223T022539_20151223T024037_B001 CS_OFFL_SIR_GOP_2_20151223T033558_20151223T034257_B001 CS_OFFL_SIR_GOP_2_20151223T043403_20151223T050038_B001 | cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind 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), Not Equilibrium Long Period Ocean Tide Geoid Height Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) | Description There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records 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 There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: 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 2: 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 |
| 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 cher Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise fro Sea State Bias Error: The error value is currently set for products over land ar Altimetric Wind Speed Error: The error value is currently set for products over | cked for the default error value (32767). Level 2 products which are expected due to om this test. nd 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) Ideoid Height Geoid Height Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Ideoid Height Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Ideoid Height Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Ideoid Height Total Geocentric Ocean Tide (FES) Ideoid Ferric Ocean Tide (FES) Ideoid Geocentric Ocean Tide (FES) | Description There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records 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 There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solu |

| 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 |
|---|---|
| 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) |
| 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 |
| Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | 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 |
| 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 |
| Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | more records |
| Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | more records |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| | Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) 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 Total Geocentric Ocean Tide (FES), No |

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. 35

Number of products with errors:

| Product | Test Failed | Description |
|---|----------------------------|--|
| CS_OFFL_SIR_GOP_220151223T001536_20151223T001637_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010341_20151223T010903_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010903_20151223T010909_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010909_20151223T010915_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010916_20151223T010922_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010922_20151223T011133_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T015518_20151223T015539_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T024307_20151223T024802_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T024814_20151223T024820_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T024820_20151223T024831_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T024838_20151223T024956_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T042245_20151223T042730_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T042736_20151223T042745_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T042752_20151223T042911_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T060234_20151223T060629_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T060650_20151223T061015_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T070028_20151223T070254_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T074058_20151223T074543_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T074548_20151223T074919_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T092047_20151223T092611_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T110014_20151223T110509_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T120119_20151223T120641_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T124221_20151223T124414_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T133615_20151223T133918_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |

| CS_OFFL_SIR_GOP_220151223T142112_20151223T142326_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
|--|----------------------------|--|
| CS_OFFL_SIR_GOP_220151223T142408_20151223T142826_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20151223T151545_20151223T151549_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T155903_20151223T160730_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T173807_20151223T174002_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T174053_20151223T174542_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T191734_20151223T191800_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T192013_20151223T192610_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20151223T205920_20151223T210441_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T223811_20151223T223922_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20151223T223929_20151223T224335_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. 28

Number of products with errors:

| Product | Test Failed | Description |
|--|----------------------------------|--|
| CS_OFFL_SIR_GOP_220151223T001536_20151223T001637_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20151223T010341_20151223T010903_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010909_20151223T010915_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010916_20151223T010922_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T010922_20151223T011133_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T024814_20151223T024820_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T042245_20151223T042730_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T042736_20151223T042745_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T042752_20151223T042911_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T060234_20151223T060629_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T060650_20151223T061015_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T070028_20151223T070254_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T074058_20151223T074543_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T074548_20151223T074919_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T092047_20151223T092611_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T110014_20151223T110509_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T120119_20151223T120641_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T124221_20151223T124414_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T133615_20151223T133918_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T142112_20151223T142326_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T142408_20151223T142826_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T155903_20151223T160730_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T173807_20151223T174002_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T174053_20151223T174542_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T191734_20151223T191800_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T192013_20151223T192610_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T205920_20151223T210441_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220151223T223811_20151223T223922_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: 151