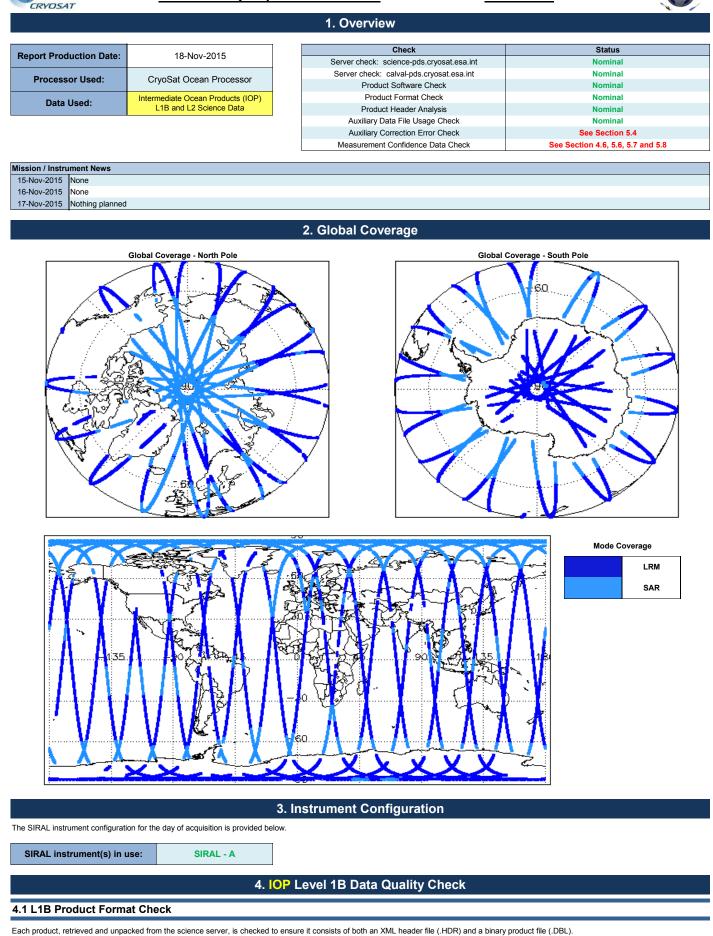


IDEAS+ Daily Report for IOP data:

<u>16/11/2015</u>





Number of products with errors:

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.

| 4.3 L1B Auxilary Data File Usage Check | | |
|---|---|--|
| Each product is checked for missing Data Set Descriptors with repsect to a pr | e-determined baseline and also to | check 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 measurer | nent record. The bit value of this fl | ag 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 | measurement record. The bit valu | e 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 | nent record. The bit value of this fla | ag indicates any problems when set. |
| Loss of Echo Flag: This flag is currently set for products over land, but this is | | o , , , , , , , , , , , , , , , , , , , |
| | | |
| Number of products with errors: 16 | | |
| | Test Failed | Description |
| Product | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 | | |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T042934_B001 | Loss of Echo Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 CS_OFFL_SIR_IOP_1B_20151116T084402_20151116T091153_B001 | Loss of Echo Loss of Echo Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 CS_OFFL_SIR_IOP_1B_20151116T084402_20151116T091153_B001 | Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 | Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T050510_B001 CS_OFFL_SIR_IOP_1B_20151116T084402_20151116T091153_B001 CS_OFFL_SIR_IOP_1B_20151116T102343_20151116T102626_B001 CS_OFFL_SIR_IOP_1B_20151116T104418_20151116T104708_B001 | Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 CS_OFFL_SIR_IOP_1B_20151116T084402_20151116T091153_B001 CS_OFFL_SIR_IOP_1B_20151116T102343_20151116T102626_B001 CS_OFFL_SIR_IOP_1B_20151116T104418_20151116T104708_B001 CS_OFFL_SIR_IOP_1B_20151116T105542_20151116T105551_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product S2_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 S2_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 S2_OFFL_SIR_IOP_1B_20151116T024810_20151116T023545_B001 S2_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 S2_OFFL_SIR_IOP_1B_20151116T0242705_20151116T042934_B001 S2_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 S2_OFFL_SIR_IOP_1B_20151116T024402_20151116T02626_B001 S2_OFFL_SIR_IOP_1B_20151116T102433_20151116T102626_B001 S2_OFFL_SIR_IOP_1B_20151116T104418_20151116T104708_B001 S2_OFFL_SIR_IOP_1B_20151116T115542_20151116T115551_B001 S2_OFFL_SIR_IOP_1B_20151116T141420_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product SS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 SS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 SS_OFFL_SIR_IOP_1B_20151116T024810_20151116T023545_B001 SS_OFFL_SIR_IOP_1B_20151116T024810_20151116T042934_B001 SS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 SS_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 SS_OFFL_SIR_IOP_1B_20151116T02443_20151116T02626_B001 SS_OFFL_SIR_IOP_1B_20151116T102433_20151116T102626_B001 SS_OFFL_SIR_IOP_1B_20151116T104418_20151116T104708_B001 SS_OFFL_SIR_IOP_1B_20151116T115542_20151116T145551_B001 SS_OFFL_SIR_IOP_1B_20151116T1440721_20151116T144755_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product IS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 IS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 IS_OFFL_SIR_IOP_1B_20151116T024810_20151116T023545_B001 IS_OFFL_SIR_IOP_1B_20151116T024810_20151116T042934_B001 IS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 IS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 IS_OFFL_SIR_IOP_1B_20151116T084402_20151116T091153_B001 IS_OFFL_SIR_IOP_1B_20151116T102434_20151116T102626_B001 IS_OFFL_SIR_IOP_1B_20151116T104418_20151116T104708_B001 IS_OFFL_SIR_IOP_1B_20151116T140721_20151116T115551_B001 IS_OFFL_SIR_IOP_1B_20151116T144313_20151116T144755_B001 IS_OFFL_SIR_IOP_1B_20151116T1444313_20151116T144755_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 CS_OFFL_SIR_IOP_1B_20151116T084402_20151116T091153_B001 CS_OFFL_SIR_IOP_1B_20151116T102343_20151116T102626_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| Product CS_OFFL_SIR_IOP_1B_20151116T014738_20151116T014745_B001 CS_OFFL_SIR_IOP_1B_20151116T020328_20151116T023553_B001 CS_OFFL_SIR_IOP_1B_20151116T024810_20151116T025445_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T042705_20151116T042934_B001 CS_OFFL_SIR_IOP_1B_20151116T050300_20151116T050510_B001 CS_OFFL_SIR_IOP_1B_20151116T02343_20151116T091153_B001 CS_OFFL_SIR_IOP_1B_20151116T102343_20151116T102626_B001 CS_OFFL_SIR_IOP_1B_20151116T104418_20151116T104708_B001 CS_OFFL_SIR_IOP_1B_20151116T104418_20151116T104708_B001 CS_OFFL_SIR_IOP_1B_20151116T144313_20151116T144755_B001 CS_OFFL_SIR_IOP_1B_20151116T144313_20151116T144755_B001 CS_OFFL_SIR_IOP_1B_20151116T165450_20151116T17107_B001 CS_OFFL_SIR_IOP_1B_20151116T144313_20151116T194723_B001 | Loss of Echo Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records |

5. IOP Level 2 Data Quality Check

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 header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

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 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 pre-determined baseline and also to check the validity 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:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

0

0

Currently, there are two common auxiliary correction errors 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.

Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected.

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Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

| Product | Test Failed | Description |
|---|-----------------------------------|---|
| CS_OFFL_SIR_IOP_220151115T235733_20151116T000016_B001 | GIM Ionospheric Correction | There is an error with the GIM lonospheric correction for one or more records |
| CS_OFFL_SIR_IOP_220151116T000421_20151116T000714_B001 | Total Geocentric Ocean Tide (FES) | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records |
| CS_OFFL_SIR_IOP_220151116T003534_20151116T005644_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_IOP_220151116T011359_20151116T013828_B001 | Total Geocentric Ocean Tide (FES) | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records |
| CS_OFFL_SIR_IOP_220151116T020328_20151116T023553_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_IOP_220151116T034404_20151116T035809_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_IOP_220151116T044842_20151116T050136_B001 | | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records |
|---|---|---|
| CS_OFFL_SIR_IOP_220151116T053118_20151116T053933_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 |
| | 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_IOP_220151116T102626_20151116T102646_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_IOP_220151116T104708_20151116T104830_B001 | Mean Sea Surface (2) | There is an error with the MSS height (solution 2) for one or more records |
| CS_OFFL_SIR_IOP_220151116T114154_20151116T115205_B001 | Total Geocentric Ocean Tide (FES), Non- | 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 |
| CS_OFFL_SIR_IOP_220151116T162219_20151116T163149_B001 | Foulibrium 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 |
| | Fotal Geocentric Ocean Tide (FES), Non- | 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_IOP_220151116T180035_20151116T180336_B001 | Fotal Geocentric Ocean Tide (FES), Non- | 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 |
| CS_OFFL_SIR_IOP_220151116T230932_20151116T231119_B001 | Mean Sea Surface (1) | There is an error with the MSS height (solution 1) 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_IOP_220151116T010305_20151116T010441_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T010448_20151116T010859_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T015100_20151116T015112_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T023814_20151116T024340_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T024340_20151116T024346_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T024346_20151116T024352_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T024353_20151116T024359_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T024359_20151116T024623_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T032918_20151116T033041_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T041741_20151116T042237_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T042237_20151116T042244_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T042251_20151116T042257_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T042315_20151116T042436_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T055708_20151116T060150_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T060151_20151116T060155_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T060155_20151116T060207_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T060229_20151116T060342_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T073725_20151116T074104_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T074111_20151116T074121_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T074127_20151116T074453_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T083458_20151116T083728_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T091522_20151116T092018_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T092025_20151116T092354_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T105520_20151116T110049_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T123441_20151116T123946_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |

| CS_OFFL_SIR_IOP_220151116T141657_20151116T141850_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
|---|----------------------------|--|
| CS_OFFL_SIR_IOP_220151116T151059_20151116T151335_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T155553_20151116T155800_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T155854_20151116T160303_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T164957_20151116T165046_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T173349_20151116T174205_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T191241_20151116T191443_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T191523_20151116T192036_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T205203_20151116T205253_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T205448_20151116T210052_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T223356_20151116T223922_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. 26

Number of products with errors:

| Product | Test Failed | Description |
|--|----------------------------------|--|
| CS_OFFL_SIR_IOP_220151116T010305_20151116T010441_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T010448_20151116T010859_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T015100_20151116T015112_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T023814_20151116T024340_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T024359_20151116T024623_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T032918_20151116T033041_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T055708_20151116T060150_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T060229_20151116T060342_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T073725_20151116T074104_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T074127_20151116T074453_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T083458_20151116T083728_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T091522_20151116T092018_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T092025_20151116T092354_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T105520_20151116T110049_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T123441_20151116T123946_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T141657_20151116T141850_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T151059_20151116T151335_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T155553_20151116T155800_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T155854_20151116T160303_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T164957_20151116T165046_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T173349_20151116T174205_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T191241_20151116T191443_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T191523_20151116T192036_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T205203_20151116T205253_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_2_20151116T205448_20151116T210052_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_IOP_220151116T223356_20151116T223922_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: 156