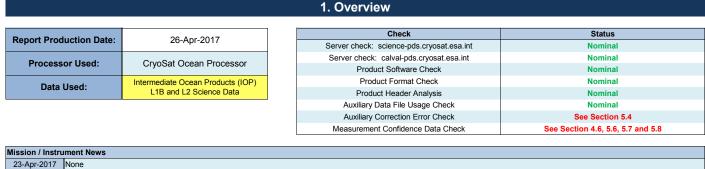


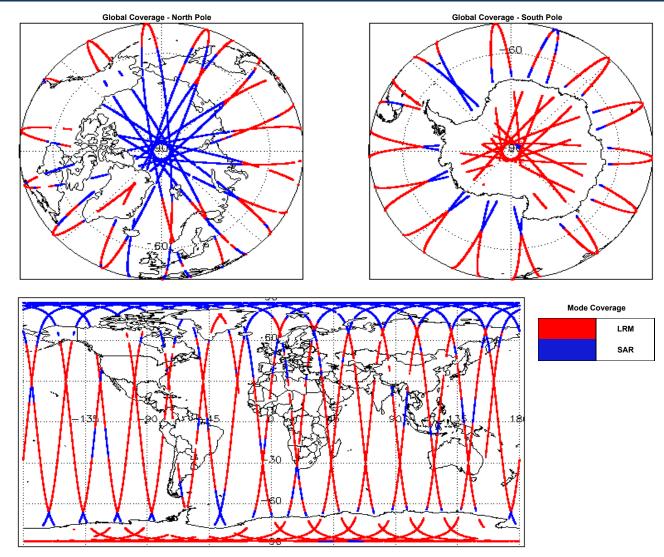
IDEAS+ Daily Report for IOP data:

24/04/2017



25-Apr-2017	Nothing planned
24-Apr-2017	None
23-Apr-2017	NULLE





3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. IOP 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 binary product file (.DBL). Number of products with errors: 0

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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 respect to a pr	re-determined baseline and also to	o 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	ment record. The bit value of this f	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.
CryoSat L1B data includes a waveform data flag (field 65) for each measurem		ag indicates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is		ag indicates any problems when set.
•		ag indicates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is		ag indicates any problems when set. Description
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001	s to be expected. Test Failed Loss of Echo	Description The tracking echo is missing for one or more records
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001	s to be expected. Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 13 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 13 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 13	s to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001	s to be expected. Test Failed Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 13 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 13 CS_OFFL_SIR_IOP_1B_20170424T03542_0170424T030357_B001 13 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 13 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001 13 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T035851_B001 14	s to be expected. Test Failed Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001	s to be expected. Test Failed Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001 CS_OFFL_SIR_IOP_1B_20170424T065824_20170424T065935_B001 CS_OFFL_SIR_IOP_1B_20170424T065824_20170424T065935_B001 CS_OFFL_SIR_IOP_1B_20170424T065824_20170424T083937_B001	s to be expected. Test Failed Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001	s to be expected. Test Failed Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001 CS_OFFL_SIR_IOP_1B_20170424T065824_20170424T065935_B001 CS_OFFL_SIR_IOP_1B_20170424T065824_20170424T065935_B001 CS_OFFL_SIR_IOP_1B_20170424T065824_20170424T083937_B001	s to be expected. Test Failed Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001 CS_OFFL_SIR_IOP_1B_20170424T065824_20170424T065935_B001 CS_OFFL_SIR_IOP_1B_20170424T083005_20170424T083937_B001 CS_OFFL_SIR_IOP_1B_20170424T111643_20170424T114311_B001	s to be expected. Test Failed Loss of Echo	Description 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
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Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOP_1B_20170424T001719_20170424T002435_B001 CS_OFFL_SIR_IOP_1B_20170424T015634_20170424T020357_B001 CS_OFFL_SIR_IOP_1B_20170424T032748_20170424T033006_B001 CS_OFFL_SIR_IOP_1B_20170424T033518_20170424T034212_B001 CS_OFFL_SIR_IOP_1B_20170424T053258_20170424T055851_B001 CS_OFFL_SIR_IOP_1B_20170424T0659325_B001 CS_OFFL_SIR_IOP_1B_20170424T083005_20170424T083937_B001 CS_OFFL_SIR_IOP_1B_20170424T11463_20170424T114311_B001 CS_OFFL_SIR_IOP_1B_20170424T182345_20170424T182504_B001 CS_OFFL_SIR_IOP_1B_20170424T200531_20170424T200640_B001	s to be expected. Test Failed Loss of Echo Loss of Echo	Description 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

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170423T233609_20170424T000417_B001	Barometric Correction, GIM Ionospheric	There is an error with the Dry Tropospheric, Wet Tropospheric, Inverse Barometric, and GIM Ionospheric corrections and U- and V-wind components for one or more records
CS_OFFL_SIR_IOP_220170424T002832_20170424T003901_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_IOP_220170424T011931_20170424T013159_B001	Fouilibrium 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_2_20170424T032320_20170424T032625_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_220170424T032748_20170424T033006_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_220170424T051339_20170424T052212_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_IOP_220170424T071034_20170424T073851_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_IOP_220170424T075152_20170424T082623_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_IOP_220170424T111643_20170424T114311_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_IOP_220170424T132723_20170424T133416_B001	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
CS_OFFL_SIR_IOP_220170424T151943_20170424T152045_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_IOP_220170424T153130_20170424T153602_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_IOP_220170424T164531_20170424T165256_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_IOP_220170424T195608_20170424T195805_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_IOP_220170424T200328_20170424T200408_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_IOP_220170424T213824_20170424T214003_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_IOP_220170424T233731_20170425T001015_B001	Ocean Tide (FES), Non-Equilibrium Long	There is an error with the Dry Tropospheric, Wet Tropospheric, and Inverse Barometric corrections, the Total Geocentric Ocean Tide (solution 2: FES), the Non-Equilibrium Long Period Ocean Tide and U- and V-wind components 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:

CS_OFFL_SIR_IOP_2_20170424T001414_20170424T001606_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170424T010302_20170424T010821_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170424T010822_20170424T010827_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170424T010834_20170424T010827_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170424T010834_20170424T010840_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T010802_20170424T01082T_B001 lice Range Averaging Status records. CS_OFFL_SIR_IOP_2_20170424T010822_20170424T01082T_B001 lice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170424T010834_20170424T010840_B001 lice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_201704241010822_201704241010827_B001 lice Range Averaging Status records. CS_OFFL_SIR_IOP_2_201704241010834_201704241010840_B001 lice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_IOP_2_20170424T010840_20170424T011045_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T024227_20170424T024722_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T024722_20170424T024725_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T024725_20170424T024732_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T024733_20170424T024739_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T024756_20170424T024912_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T042215_20170424T042649_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T042655_20170424T042703_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T042710_20170424T042843_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T060043_20170424T060549_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T060552_20170424T060602_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T060609_20170424T060933_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T074026_20170424T074503_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T074506_20170424T074839_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T092008_20170424T092529_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T110036_20170424T110428_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T124140_20170424T124334_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_IOP_2_20170424T124633_20170424T124805_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	

CS_OFFL_SIR_IOP_220170424T133538_20170424T133923_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T142027_20170424T142248_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T142321_20170424T142743_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T155814_20170424T160651_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T173728_20170424T173917_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T174015_20170424T174450_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T191657_20170424T191703_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T191932_20170424T192525_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T205839_20170424T210356_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T223723_20170424T223840_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T223848_20170424T224254_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. 27

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170424T001414_20170424T001606_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T010302_20170424T010821_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T010834_20170424T010840_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T010840_20170424T011045_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T024722_20170424T024725_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T024733_20170424T024739_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T024756_20170424T024912_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T042215_20170424T042649_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T042655_20170424T042703_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T042710_20170424T042843_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T060043_20170424T060549_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T060609_20170424T060933_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T074026_20170424T074503_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T074506_20170424T074839_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T092008_20170424T092529_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T110036_20170424T110428_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T124140_20170424T124334_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T124633_20170424T124805_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T133538_20170424T133923_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T142027_20170424T142248_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T142321_20170424T142743_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T155814_20170424T160651_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T173728_20170424T173917_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T174015_20170424T174450_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T191932_20170424T192525_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T205839_20170424T210356_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170424T223848_20170424T224254_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.

6. IOP 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	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_IOP_1B	286	286	286	0	0
SIR_IOP_2	283	283	283	0	0
6.1 QCC Errors					
Number of QCC reports with err	ors:	0			
6.2 QCC Warnings					
Number of QCC reports with wa	rnings	0			
6.3 Missing QCC Repo	rts				
Number of products with missir	g QCC reports:	1			
Product name					
CS OFFL SIR IOP 1B 2017042	4T132715 20170424T132715	B001			