



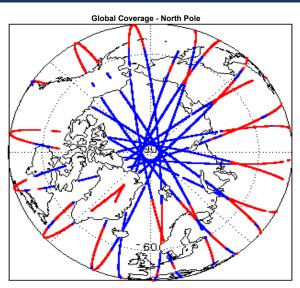
# 1. Overview

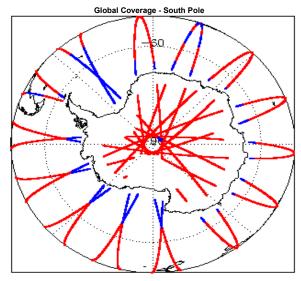
Report Production Date:	24-Apr-2017
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data

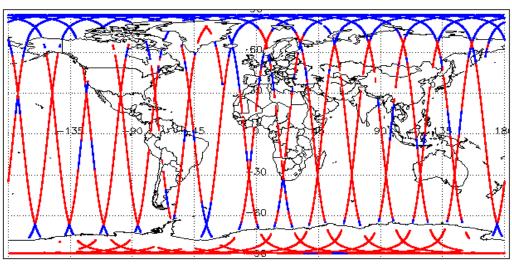
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.6, 5.6, 5.7 and 5.8

Mission / Instrument News				
21-Apr-2017	None			
22-Apr-2017	None			
23-Apr-2017	Nothing planned			

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. 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

# 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 pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 60) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

0

#### 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag (field 65) for each measurement record. The bit value of this flag indicates any 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:

10

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20170422T015901_20170422T020421_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T021600_20170422T022529_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T061317_20170422T061443_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T071308_20170422T074116_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T132933_20170422T133645_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T151823_20170422T151953_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T152214_20170422T152332_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T195831_20170422T200035_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T200934_20170422T201731_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170422T231009_20170422T231452_B001	Loss of Echo	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:

0

### 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:

0

#### 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).

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.

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: 19

Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Period	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20170422T03015_20170422T033252_B001  CS_OFFL_SIR_IOP_2_20170422T033015_20170422T033252_B001  CS_OFFL_SIR_IOP_2_20170422T043529_20170422T051013_B001  CS_OFFL_SIR_IOP_2_20170422T051609_20170422T052436_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T10253_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T10253_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T13025_B001  CS_OFFL_SIR_IOP_2_20170422T132933_20170422T133645_B001	CS_OFFL_SIR_IOP_2_20170422T012203_20170422T013426_B001	Equilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_IOP_2_20170422T033015_20170422T033252_B001  CS_OFFL_SIR_IOP_2_20170422T043529_20170422T051013_B001  CS_OFFL_SIR_IOP_2_20170422T051609_20170422T052436_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T10252B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T131025_B001  CS_OFFL_SIR_IOP_2_20170422T125257_20170422T131025_B001  CS_OFFL_SIR_IOP_2_20170422T132933_20170422T133645_B001	CS_OFFL_SIR_IOP_2_20170422T021600_20170422T022529_B001	Equilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_IOP_2_20170422T051013_B001  CS_OFFL_SIR_IOP_2_20170422T051609_20170422T052436_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T10252B001  Total Geocentric Ocean Tide (FES), 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) for one or more records  Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records  Total Geocentric Ocean Tide (FES), 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 for one or more records	CS_OFFL_SIR_IOP_2_20170422T033015_20170422T033252_B001	Fauilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_IOP_2_20170422T051609_20170422T052436_B001  CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001  Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height for one or more records  Total Geocentric Ocean Tide (FES)  Total Geocentric Ocean Tide (FES)  There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records  Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-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 (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 (so	CS_OFFL_SIR_IOP_2_20170422T043529_20170422T051013_B001	Equilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_IOP_2_20170422T132539_20170422T131025_B001  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), 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	CS_OFFL_SIR_IOP_2_20170422T051609_20170422T052436_B001	Fauilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_IOP_2_20170422T125257_20170422T131025_B001  Iotal Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Period Ocean Tide (FES), Non-Tide Roccentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Fourill Feriod Ocean Tide (	CS_OFFL_SIR_IOP_2_20170422T102529_20170422T102731_B001	Total Geocentric Ocean Tide (FES)	- · · · · · · · · · · · · · · · · · · ·
CS_OFFL_SIR_IOP_2_20170422T132933_20170422T133645_B001	CS_OFFL_SIR_IOP_2_20170422T125257_20170422T131025_B001	Fauilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
	CS_OFFL_SIR_IOP_2_20170422T132933_20170422T133645_B001	Fauilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or

	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
Fauilibrium 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
Fauilibrium 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)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) 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
Familibrium 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
Fauilibrium 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  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 (GOT), 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)  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

# 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

C

# 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.

Number of products with errors:

28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170422T001658_20170422T001832_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T010530_20170422T011049_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T011055_20170422T011102_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T011102_20170422T011108_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T011108_20170422T011314_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T024455_20170422T024949_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T024953_20170422T025000_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T025024_20170422T025141_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T042438_20170422T042916_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T042938_20170422T043106_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T060313_20170422T060817_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T060836_20170422T061201_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T074251_20170422T074730_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T074734_20170422T075106_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T092235_20170422T092757_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T110235_20170422T110656_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T124408_20170422T124601_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T124912_20170422T125028_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T133806_20170422T134126_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T142256_20170422T142515_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T142550_20170422T143011_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T160045_20170422T160918_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T173955_20170422T174146_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T174242_20170422T174721_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T192200_20170422T192754_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T210107_20170422T210625_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
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CS_OFFL_SIR_IOP_220170422T223953_20170422T224108_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170422T224116_20170422T224522_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.

Number of products with errors:

24

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170422T010530_20170422T011049_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T011102_20170422T011108_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T024455_20170422T024949_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T024953_20170422T025000_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T025024_20170422T025141_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T042438_20170422T042916_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T042938_20170422T043106_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T060313_20170422T060817_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T060836_20170422T061201_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T074251_20170422T074730_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T074734_20170422T075106_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T092235_20170422T092757_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T110235_20170422T110656_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T124408_20170422T124601_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T124912_20170422T125028_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T133806_20170422T134126_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T142256_20170422T142515_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T142550_20170422T143011_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T160045_20170422T160918_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T173955_20170422T174146_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T174242_20170422T174721_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T192200_20170422T192754_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170422T210107_20170422T210625_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170422T223953_20170422T224108_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: 158

# 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	291	291	291	0	0
SIR_IOP_2	286	286	286	0	0

# 6.1 QCC Errors

Number of QCC reports with errors:

0

# 6.2 QCC Warnings

Number of QCC reports with warnings

0

# 6.3 Missing QCC Reports

Number of products with missing QCC reports: