



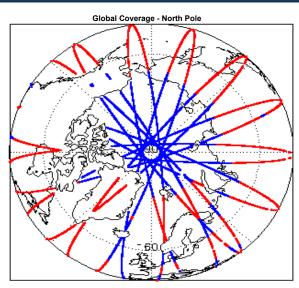
# 1. Overview

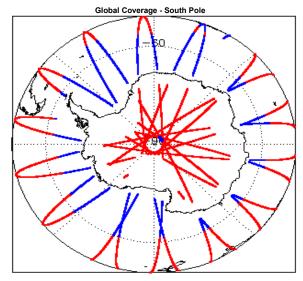
Report Production Date:	09-Oct-2017
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data

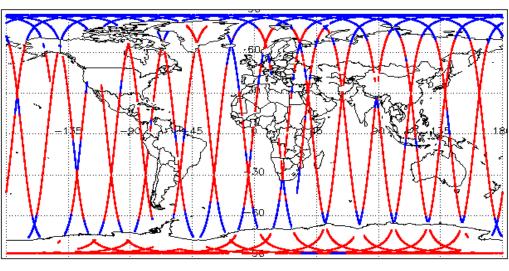
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6, 5.5, 5.6, 5.7 and 5.8

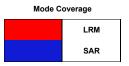
M	ission / Instru	ment News
	06-Oct-2017	None
	07-Oct-2017	None
	08-Oct-2017	Nothing planned

# 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20171007T083647_20171007T084427_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

### 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:

duct			

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20171007T002023_20171007T002229_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20171007T005224_20171007T005748_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20171007T014701_20171007T015559_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20171007T082438_20171007T083156_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20171007T180140_20171007T181726_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20171007T214034_20171007T215043_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:

### 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:

### 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).

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171007T002023_20171007T002229_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_2_20171007T014701_20171007T015559_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_220171007T020209_20171007T020354_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_220171007T043018_20171007T044702_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_220171007T062331_20171007T062509_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_220171007T062510_20171007T064105_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_220171007T065855_20171007T070913_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_2_20171007T081058_20171007T081203_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_220171007T083647_20171007T084427_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_2_20171007T113503_20171007T113707_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_220171007T124425_20171007T124943_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOP_2_20171007T131746_20171007T131916_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_220171007T165034_20171007T165145_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_2_20171007T171308_20171007T172805_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_2_20171007T194247_20171007T194517_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_2_20171007T214034_20171007T215043_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_220171007T235459_20171008T000007_B001	Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction, U-component and V-component of the model wind vector	There is an error with the Meteo corrections 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20171007T083647_20171007T084427_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 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:

CS_OFFL_SIR_JOP_2_20171007T03944_20171007T03438_8001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T03442_0171007T04242_B001 Los Range Averaging Status  The Los Range Averaging Status Flag has been set for one or more ecotods.  CS_OFFL_SIR_JOP_2_20171007T034242_0171007T04247_B001 Los Range Averaging Status  The Los Range Averaging Status Flag has been set for one or more ecotods.  CS_OFFL_SIR_JOP_2_20171007T054247_B001 Los Range Averaging Status  The Los Range Averaging Status Flag has been set for one or more ecotods.  CS_OFFL_SIR_JOP_2_20171007T054247_B001 Los Range Averaging Status  The Los Range Averaging Status Flag has been set for one or more ecotods.  CS_OFFL_SIR_JOP_2_20171007T057538_20171007T00750558_B001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T077328_20171007T077458_B001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T077328_20171007T0074058_B001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T079182_B001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T10580_20171007T10580_B001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T10580_20171007T11450_B001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T141747_20171007T114740_B001 Los Range Averaging Status  CS_OFFL_SIR_JOP_2_20171007T141740_B001 Los Range Averaging Status  CS	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20171007T042849_20171007T042242_8001  CS_OFFL_SIR_IOP_2_20171007T042807_20171007T042447_8001  CS_OFFL_SIR_IOP_2_20171007T054442_20171007T042847_8001  CS_OFFL_SIR_IOP_2_20171007T054380_20171007T06953_8001  CS_OFFL_SIR_IOP_2_20171007T054380_20171007T06953_8001  CS_OFFL_SIR_IOP_2_20171007T054380_20171007T06952_8001  CS_OFFL_SIR_IOP_2_20171007T054380_20171007T06952_8001  CS_OFFL_SIR_IOP_2_20171007T054380_20171007T06952_8001  CS_OFFL_SIR_IOP_2_20171007T054380_20171007T06952_8001  CS_OFFL_SIR_IOP_2_20171007T06933_20171007T06952_8001  CS_OFFL_SIR_IOP_2_20171007T06932_20171007T06952_8001  CS_OFFL_SIR_IOP_2_20171007T06932_20171007T06952_8001  CS_OFFL_SIR_IOP_2_20171007T06932_20171007T058405_8001  CS_OFFL_SIR_IOP_2_20171007T06932_20171007T05823_8001  CS_OFFL_SIR_IOP_2_20171007T06932_20171007T05823_8001  CS_OFFL_SIR_IOP_2_20171007T105840_20171007T105823_8001  CS_OFFL_SIR_IOP_2_20171007T105840_20171007T105823_8001  CS_OFFL_SIR_IOP_2_20171007T105840_20171007T105823_8001  CS_OFFL_SIR_IOP_2_20171007T105840_20171007T105823_8001  CS_OFFL_SIR_IOP_2_20171007T105840_20171007T14306_8001  CS_OFFL_SIR_IOP_2_20171007T105840_20171007T14306_8001  CS_OFFL_SIR_IOP_2_20171007T145840_20171007T14506_8001  CS_OFFL_SIR_IOP_2_20171007T145840_20171007T14506_8001  CS_OFFL_SIR_IOP_2_20171007T145840_20171007T145665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T145665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T145665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T145665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8001  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155665_8	CS_OFFL_SIR_IOP_220171007T005915_20171007T010438_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T042249_80071007T042242_8001 to Range Averaging Status records.  CS_OFFL_SIR_IOP_2_20171007T061442_20171007T061575_B001 to Range Averaging Status records.  CS_OFFL_SIR_IOP_2_20171007T061442_20171007T06155_B001 to Range Averaging Status records.  CS_OFFL_SIR_IOP_2_20171007T060233_20171007T060652_B001 to Range Averaging Status records.  CS_OFFL_SIR_IOP_2_20171007T060233_20171007T060652_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T0673728_20171007T061658_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T061635_20171007T061628_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T061635_20171007T061628_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T06630_20171007T10622405_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T106540_20171007T106528_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T106540_20171007T106530_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T14586_20171007T14576_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T141757_20171007T14202_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T141757_20171007T14202_B001 to Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  The loc Range Averaging Status Flag has been set for one or more records.  The loc Range Averaging Status Flag has	CS_OFFL_SIR_IOP_220171007T023844_20171007T024336_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_IOP_2_201710071091821_20171007T1095205_B001	CS_OFFL_SIR_IOP_220171007T073728_20171007T074558_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T105603_20171007T105623_B001	CS_OFFL_SIR_IOP_220171007T091635_20171007T091828_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T105840_20171007T11435_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T141749_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T141749_20171007T141756_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T141757_20171007T1417202_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T15541_20171007T142202_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T15541_20171007T155647_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155653_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155707_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T155700_20171007T155707_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T155707_20171007T155707_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173039_20171007T173545_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173605_20171007T17350_B001  Lee Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL	CS_OFFL_SIR_IOP_220171007T091921_20171007T092405_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T1123747_20171007T1124306_B001	CS_OFFL_SIR_IOP_220171007T105603_20171007T105623_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T141636_20171007T141749_B001	CS_OFFL_SIR_IOP_2_20171007T105840_20171007T110435_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T141749_20171007T141749_20171  CS_OFFL_SIR_IOP_2_20171007T141749_20171007T141756_B001  Ice 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.  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.  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_20171007T155700_20171007T155707_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T155707_20171007T160008_B001  Ice 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.  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.  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.  The Ice Rang	CS_OFFL_SIR_IOP_220171007T123747_20171007T124306_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T14174S_B001 lce 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.  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.  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.  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.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173605_20171007T173604_B001 Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173605_20171007T173750_B001 Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T19156_20171007T191503_B001 Ice 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.  The Ic	CS_OFFL_SIR_IOP_220171007T141636_20171007T141749_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T155141_20171007T155647_B001  Lee Range Averaging Status  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Rang	CS_OFFL_SIR_IOP_220171007T141749_20171007T141756_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T155648_20171007T155653_B001  Lee Range Averaging Status  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T155707_20171007T160008_B001  Lee Range Averaging Status  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173609_20171007T173604_B001  Lee Range Averaging Status  The lee Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173605_20171007T173616_B001  Lee Range Averaging Status  The lee Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173605_20171007T173750_B001  Lee Range Averaging Status  The lee Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191503_B001  Lee Range Averaging Status  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has been set for one or more records.  The lee Range Averaging Status Flag has be	CS_OFFL_SIR_IOP_220171007T141757_20171007T142202_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T155703_20171007T155707_B001  Ice Range Averaging Status  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_20171007T173039_20171007T173545_B001  Ice Range Averaging Status  Ice 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.  CS_OFFL_SIR_IOP_2_20171007T173559_20171007T173604_B001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173605_20171007T173616_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173624_20171007T173750_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173624_20171007T173750_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191456_20171007T191503_B001  Ice 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.  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.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220171007T155141_20171007T155647_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T155707_20171007T160008_B001	CS_OFFL_SIR_IOP_220171007T155648_20171007T155653_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T173570_20171007T173545_B001  Ice Range Averaging Status  records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173559_20171007T173604_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173605_20171007T173616_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173624_20171007T173750_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173624_20171007T17350_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191503_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191514_B001  Ice 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.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220171007T155700_20171007T155707_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T173604_B001	CS_OFFL_SIR_IOP_220171007T155707_20171007T160008_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T173605_20171007T173616_B001  Ice Range Averaging Status  records.  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T173624_20171007T173750_B001  Ice Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191456_20171007T191503_B001  Ice Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191501_B001  Ice Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191514_B001  Ice Range Averaging Status  The loc Range Averaging Status Flag has been set for one or more records.  The loc Range Averaging Status Flag has been set for one or more records.  The loc Range Averaging Status Flag has been set for one or more records.  The loc Range Averaging Status Flag has been set for one or more records.  The loc Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220171007T173039_20171007T173545_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T173624_20171007T173750_B001  Ice Range Averaging Status  records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191456_20171007T191503_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191514_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191514_B001  Ice 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.	CS_OFFL_SIR_IOP_220171007T173559_20171007T173604_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T191456_20171007T191503_B001  Ice Range Averaging Status  records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191514_B001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20171007T191501_20171007T191514_B001  Ice 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.	CS_OFFL_SIR_IOP_220171007T173605_20171007T173616_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191514_B001	CS_OFFL_SIR_IOP_220171007T173624_20171007T173750_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20171007T191503_20171007T191514_5001	CS_OFFL_SIR_IOP_220171007T191456_20171007T191503_B001	Ice Range Averaging Status	
US OFFI SIR IOP 2 2017/1007 1 91521 2017/1007 1 91530 BOOT	CS_OFFL_SIR_IOP_220171007T191503_20171007T191514_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_IOP_220171007T191521_20171007T191530_B001	Ice Range Averaging Status	

CS_OFFL_SIR_IOP_220171007T191537_20171007T191640_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T205036_20171007T205412_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T205419_20171007T205428_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T205434_20171007T205745_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T222818_20171007T223326_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T223333_20171007T223700_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: 25

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171007T005915_20171007T010438_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T023844_20171007T024336_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T042049_20171007T042242_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T042607_20171007T042647_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T055938_20171007T060155_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T060233_20171007T060652_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T073728_20171007T074558_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T091635_20171007T091828_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T091921_20171007T092405_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T123747_20171007T124306_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T141636_20171007T141749_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T141757_20171007T142202_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T155141_20171007T155647_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T155648_20171007T155653_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T155700_20171007T155707_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T155707_20171007T160008_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T173559_20171007T173604_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T173624_20171007T173750_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T191503_20171007T191514_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T191537_20171007T191640_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T205036_20171007T205412_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T205419_20171007T205428_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T205434_20171007T205745_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T222818_20171007T223326_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171007T223333_20171007T223700_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: 145

# 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	236	236	236	0	0
SIR_IOP_2	235	235	235	0	0

## 6.1 QCC Errors

6.2 QCC Warnings	
Number of QCC reports with warnings	0
6.3 Missing QCC Reports	
Number of products with missing QCC reports:	0