

## IDEAS+ Daily Report for IOP data:

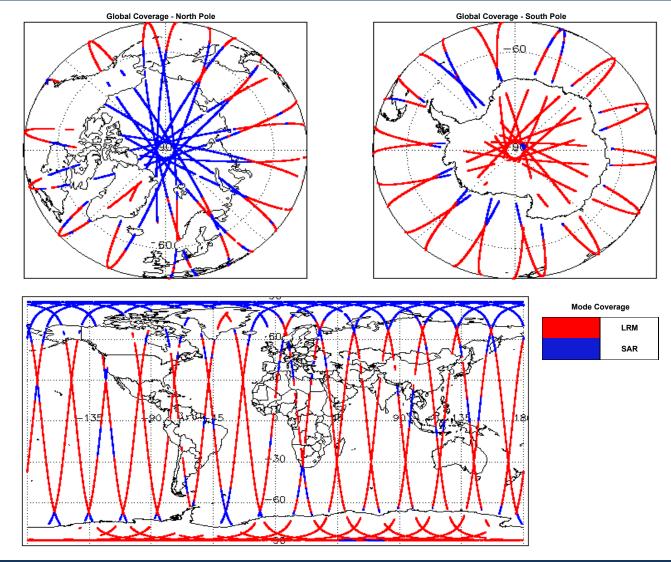
## 24/03/2017

Report Production Date:	27-Mar-2017	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data	Product Format Check	Nominal	
Data Oseu.		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	

25 Mar 2017	
24-Mar-2017	None
20-10101-2017	NOTIC

25-Mar-2017 Nothing planned





## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

## 4. 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:

## 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.

Each product is checked for missing Data Set Descriptors with respect to a p	pre-determined baseline and also to	check the validity of Auxiliary Data Files is correct
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 60) for each measure	ment record. The bit value of this fl	ag indicates any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each	h 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		
Consecution of the second seco	ment and The bit solve of this fl	
		ag indicates any problems when set.
CryoSat L1B data includes a waveform data flag (field 65) for each measurer Loss of Echo Flag: This flag is currently set for products over land, but this		ag indicates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this		ag indicates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 11 Product	is to be expected.	Description
Loss of Echo Flag: This flag is currently set for products over land, but this in the set of products with errors:       11         Product       CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001	is 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 I Number of products with errors: 11 Product CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001 CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001	is 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:         11           Product         CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001           CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001         CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001	is 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:         11           Product         11           CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001         CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001         CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001           CS_OFFL_SIR_IOP_1B_20170324T0324T045508_20170324T045508_B001         CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T04555_B001	is 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 I           Number of products with errors:         11           Product         CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001           CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001         CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001         CS_OFFL_SIR_IOP_1B_20170324T082727_20170324T083005_B001           CS_OFFL_SIR_IOP_1B_20170324T0824509_20170324T090620_B001         CS_OFFL_SIR_IOP_1B_20170324T08509_20170324T090620_B001	is 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 I Number of products with errors: 11  Product CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001 CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001 CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001 CS_OFFL_SIR_IOP_1B_20170324T084509_20170324T090620_B001 CS_OFFL_SIR_IOP_1B_20170324T150832_20170324T150840_B001	is 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
Loss of Echo Flag: This flag is currently set for products over land, but this I           Number of products with errors:         11           Product         11           CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001         05           CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001         05           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001         05           CS_OFFL_SIR_IOP_1B_20170324T082727_20170324T083005_B001         05           CS_OFFL_SIR_IOP_1B_20170324T084509_20170324T090620_B001         05           CS_OFFL_SIR_IOP_1B_20170324T150832_20170324T150840_B001         05           CS_OFFL_SIR_IOP_1B_20170324T161326_20170324T162908_B001         05	is 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
Loss of Echo Flag: This flag is currently set for products over land, but this I           Number of products with errors:         11           Product         11           CS_OFFL_SIR_IOP_1B_20170324T034055_20170324T035025_B001         11           CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001         11           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T040804_B001         11           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T040804_B001         11           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T040804_B001         11           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T040804_B001         11           CS_OFFL_SIR_IOP_1B_20170324T084509_20170324T08005_B001         11           CS_OFFL_SIR_IOP_1B_20170324T150832_20170324T150840_B001         11           CS_OFFL_SIR_IOP_1B_20170324T161326_20170324T162908_B001         11	is 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
Loss of Echo Flag: This flag is currently set for products over land, but this is number of products with errors:         11           Product         11           CS_OFFL_SIR_IOP_1B_20170324T035025_20170324T035025_B001         CS_OFFL_SIR_IOP_1B_20170324T035228_20170324T040804_B001           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001         CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T045736_B001           CS_OFFL_SIR_IOP_1B_20170324T045508_20170324T04505_B001         CS_OFFL_SIR_IOP_1B_20170324T082727_20170324T0450620_B001           CS_OFFL_SIR_IOP_1B_20170324T084509_20170324T090620_B001         CS_OFFL_SIR_IOP_1B_20170324T150832_20170324T150840_B001           CS_OFFL_SIR_IOP_1B_20170324T161326_20170324T162908_B001         CS_OFFL_SIR_IOP_1B_20170324T195522_20170324T200040_B001           CS_OFFL_SIR_IOP_1B_20170324T212323_20170324T212527_B001         CS_OFFL_SIR_IOP_1B_20170324T212323_20170324T212527_B001	is 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
Loss of Echo Flag: This flag is currently set for products over land, but this	is 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

## 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:

## 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.

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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_220170324T001536_20170324T004918_B001	For Formattic Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170324T050240_20170324T050933_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_220170324T052526_20170324T052839_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_220170324T064102_20170324T064942_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_220170324T083536_20170324T084506_B001	For Formation Period Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170324T115024_20170324T115222_B001	For the formation of the second secon	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_220170324T115222_20170324T115306_B001	For Formattic Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170324T145449_20170324T150138_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_220170324T152404_20170324T152618_B001	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_220170324T161326_20170324T162908_B001	Equilibrium Long Period Ocean Tide	HES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170324T175915_20170324T180056_B001	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_220170324T182554_20170324T182750_B001	Total Geocentric Ocean Tide (FES), Non-	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_220170324T211421_20170324T212323_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170324T230604_20170324T230730_B001	Fotal 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

### 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. 0

Number of products with errors:

### 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:

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Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170324T005437_20170324T005648_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T005648_20170324T005654_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T005654_20170324T010107_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T014156_20170324T014325_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T023027_20170324T023546_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T023552_20170324T023559_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T023559_20170324T023605_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T023605_20170324T023812_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T040952_20170324T041446_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T041446_20170324T041450_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T041450_20170324T041457_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T041521_20170324T041638_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T054935_20170324T055414_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T055420_20170324T055428_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T055435_20170324T055602_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T072835_20170324T073314_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T073333_20170324T073658_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T090748_20170324T091227_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T091231_20170324T091603_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T104732_20170324T105254_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T114455_20170324T114526_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T122722_20170324T123153_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T140905_20170324T141058_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T141412_20170324T141523_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T150300_20170324T150618_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T154753_20170324T155012_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T155047_20170324T155508_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T172542_20170324T173414_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T190452_20170324T190644_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T190738_20170324T191218_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T195522_20170324T200040_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T204657_20170324T205251_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T222604_20170324T223122_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 28

### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170324T005437_20170324T005648_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T005648_20170324T005654_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T005654_20170324T010107_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T014156_20170324T014325_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T023027_20170324T023546_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T023552_20170324T023559_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T023559_20170324T023605_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T040952_20170324T041446_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T041521_20170324T041638_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T054935_20170324T055414_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T055435_20170324T055602_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T072835_20170324T073314_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T073333_20170324T073658_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T090748_20170324T091227_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T091231_20170324T091603_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T104732_20170324T105254_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T114455_20170324T114526_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T122722_20170324T123153_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T140905_20170324T141058_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T141412_20170324T141523_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T154753_20170324T155012_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T155047_20170324T155508_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T172542_20170324T173414_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T190452_20170324T190644_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T190738_20170324T191218_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T195522_20170324T200040_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T204657_20170324T205251_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170324T222604_20170324T223122_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:

### 161

## 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	289	289	289	0	0
6.1 QCC Errors					
lumber of QCC reports with err	iore:	0			
	010.	0			
6.2 QCC Warnings					
lumber of QCC reports with wa	Irnings	0			
	<b>.</b>				
6.3 Missing QCC Repo	rts				
lumber of products with missir		0			