



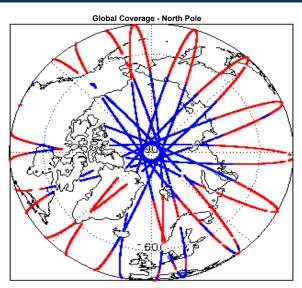
1. Overview

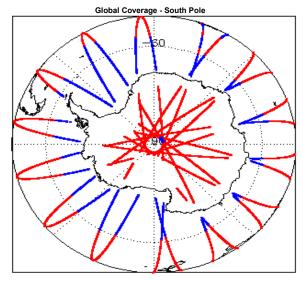
Report Production Date:	15-Jul-2016
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data

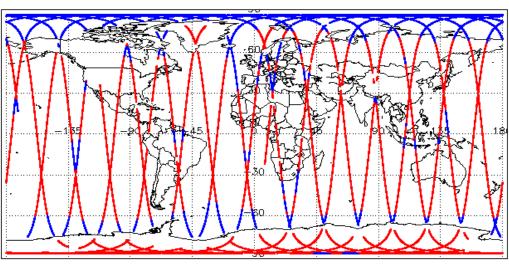
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

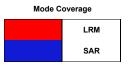
N	Mission / Instrument News	
	12-Jul-2016	None
	13-Jul-2016	None
	14-Jul-2016	Nothing planned

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:

5

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20160713T050815_20160713T051238_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_1B_20160713T151828_20160713T153839_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_1B_20160713T183542_20160713T184152_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_1B_20160713T215332_20160713T220013_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_1B_20160713T233903_20160713T234029_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:

11

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20160713T003312_20160713T003440_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T011340_20160713T011722_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T015334_20160713T020126_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T025646_20160713T031224_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T034647_20160713T040218_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T101001_20160713T101133_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T105657_20160713T110108_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T132716_20160713T132854_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T162817_20160713T164322_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T165025_20160713T165718_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160713T233159_20160713T233222_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:

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: 17

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160712T235920_20160713T000205_B001	IGIM Ionospheric Correction	There is an error with the GIM lonospheric correction for one or more records
CS_OFFL_SIR_IOP_220160713T002839_20160713T003039_B001	Total Geocentric Ocean Tide (FES), Non- 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
CS_OFFL_SIR_IOP_220160713T003039_20160713T003117_B001	Lotal Geocentric Ocean Lide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160713T011722_20160713T012223_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

CS_OFFL_SIR_IOP_220160713T025646_20160713T031224_B001	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
CS_OFFL_SIR_IOP_220160713T033226_20160713T033955_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160713T040433_20160713T041917_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_220160713T045146_20160713T050719_B001	Ocean Tide (FES), Non-Equilibrium Long	There is an error with the MSS height (solution 1), 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_220160713T052525_20160713T052624_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_220160713T061551_20160713T063835_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160713T070404_20160713T070550_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_220160713T100144_20160713T100347_B001	Foulibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160713T114415_20160713T114547_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160713T151707_20160713T151827_B001	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
CS_OFFL_SIR_IOP_220160713T153839_20160713T153941_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_220160713T164323_20160713T164408_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160713T182137_20160713T182426_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

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_220160713T050815_20160713T051238_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220160713T151828_20160713T153839_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220160713T183542_20160713T184152_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220160713T215332_20160713T220013_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220160713T233903_20160713T234029_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160713T002311_20160713T002722_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T010548_20160713T011010_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T024723_20160713T024916_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T025228_20160713T025342_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T034116_20160713T034435_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T042611_20160713T042829_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T042905_20160713T043326_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T060359_20160713T061233_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T074309_20160713T074501_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T074557_20160713T075036_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T092238_20160713T092251_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T092514_20160713T093109_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T110421_20160713T110940_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T124308_20160713T124423_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T124431_20160713T124837_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T141810_20160713T142321_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T142334_20160713T142341_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220160713T142341_20160713T142636_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T150640_20160713T151014_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T160219_20160713T160226_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T160226_20160713T160232_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T160238_20160713T160250_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T160258_20160713T160423_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T173629_20160713T174129_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T174137_20160713T174148_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T174211_20160713T174315_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T191711_20160713T192046_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T192108_20160713T192425_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T205453_20160713T210000_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T210007_20160713T210335_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160713T223452_20160713T224032_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T224129_20160713T224234_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

CS_OFFL_SIR_IOP_2_20160713T010548_20160713T011010_B001 CS_OFFL_SIR_IOP_2_20160713T010548_20160713T024916_B001 CS_OFFL_SIR_IOP_2_20160713T024723_20160713T024916_B001 CS_OFFL_SIR_IOP_2_20160713T024723_20160713T024916_B001 CS_OFFL_SIR_IOP_2_20160713T025228_20160713T025342_B001 CS_OFFL_SIR_IOP_2_20160713T042611_20160713T042829_B001 CS_OFFL_SIR_IOP_2_20160713T042611_20160713T042829_B001 CS_OFFL_SIR_IOP_2_20160713T042905_20160713T042829_B001 CS_OFFL_SIR_IOP_2_20160713T042905_20160713T043326_B001 CS_OFFL_SIR_IOP_2_20160713T042905_20160713T043326_B001 CS_OFFL_SIR_IOP_2_20160713T042905_20160713T043326_B001 CS_OFFL_SIR_IOP_2_20160713T042905_20160713T04501_B001 CS_OFFL_SIR_IOP_2_20160713T04507_20160713T04501_B001 CS_OFFL_SIR_IOP_2_20160713T04567_20160713T075036_B001 CS_OFFL_SIR_IOP_2_20160713T04567_20160713T0930109_B001 CS_OFFL_SIR_IOP_2_20160713T04567_20160713T0930109_B001 CS_OFFL_SIR_IOP_2_20160713T04567_20160713T0930109_B001 CS_OFFL_SIR_IOP_2_20160713T10421_20160713T10940_B001 CS_OFFL_SIR_IOP_2_20160713T10421_20160713T110940_B001 CS_OFFL_SIR_IOP_2_20160713T114431_20160713T1124438_B001 CS_OFFL_SIR_IOP_2_20160713T114431_20160713T124438_B001 CS_OFFL_SIR_IOP_2_20160713T114431_20160713T124387_B001 CS_OFFL_SIR_IOP_2_20160713T14431_20160713T142321_B001 CS_OFFL_SIR_IOP_2_20160713T14431_20160713T142321_B	Т	Test Failed	Description
CS_OFFL_SIR_IOP_2_20160713T04232_20160713T024916_B001 Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mercords. CS_OFFL_SIR_IOP_2_20160713T042611_20160713T042829_B001 Loe Backscatter Averaging Status Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mercords. The loe Backscatter Averaging Status Flag has been set for one or mercords. The loe Backscatter Averaging Status Flag has been set for one or mercords. The loe Backscatter Averaging Status Flag has been set for one or mercords. The loe Backscatter Averaging Status Flag has been set for one or mercords. The loe Backscatter Averaging Status Flag has been set for one or mercords. The loe Backscatter Averaging Status Flag has been set for one or mercords. CS_OFFL_SIR_IOP_2_20160713T060359_20160713T061233_B001 Loe Backscatter Averaging Status Loe Backscatter Averaging Status Loe Backscatter Averaging Status Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mercords. The loe Backscatter Averaging Status Flag has been set for one or mercords. CS_OFFL_SIR_IOP_2_20160713T074507_20160713T075036_B001 Loe Backscatter Averaging Status Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mercords. CS_OFFL_SIR_IOP_2_20160713T074557_20160713T093109_B001 Loe Backscatter Averaging Status Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mercords. CS_OFFL_SIR_IOP_2_20160713T10421_20160713T10940_B001 Loe Backscatter Averaging Status Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mercords. CS_OFFL_SIR_IOP_2_20160713T124431_20160713T124423_B001 Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mercords. CS_OFFL_SIR_IOP_2_20160713T14431_20160713T14231_B001 Loe Backscatter Averaging Status The loe Backsca	P_220160713T002311_20160713T002722_B001	IR_IOP_2_20160713T002311_20160713T002722_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T025282_20160713T025342_B001 Ice Backscatter Averaging Status Ice Backscatter Av	P_220160713T010548_20160713T011010_B001	IR_IOP_2_20160713T010548_20160713T011010_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T042611_20160713T042829_B001 Ice Backscatter Averaging Status Ice Backscatter Av	P_220160713T024723_20160713T024916_B001	R_IOP_2_20160713T024723_20160713T024916_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T042905_20160713T043326_B001 Ice Backscatter Averaging Status Ice Backscatter Av	P_220160713T025228_20160713T025342_B001	IR_IOP_2_20160713T025228_20160713T025342_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T042905_20160713T043232_B001 Ice Backscatter Averaging Status Ice Backscatter Av	P_220160713T042611_20160713T042829_B001	IR_IOP_220160713T042611_20160713T042829_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T074309_20160713T074501_B001 Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20160713T074557_20160713T075036_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160713T074557_20160713T093109_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160713T124431_20160713T124437_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records.	P_2_20160713T042905_20160713T043326_B001	IR_IOP_220160713T042905_20160713T043326_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T074557_20160713T075036_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or morecords. CS_OFFL_SIR_IOP_2_20160713T1092514_20160713T093109_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords. The Ice Backscatter Averaging Status Flag has been set for one or morecords.	P_220160713T060359_20160713T061233_B001	IR_IOP_2_20160713T060359_20160713T061233_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T10421_20160713T10940_B001 CS_OFFL_SIR_IOP_2_20160713T110421_20160713T110940_B001 CS_OFFL_SIR_IOP_2_20160713T110421_20160713T110940_B001 CS_OFFL_SIR_IOP_2_20160713T124308_20160713T124423_B001 CS_OFFL_SIR_IOP_2_20160713T124431_20160713T124437_B001 CS_OFFL_SIR_IOP_2_20160713T124431_20160713T124837_B001 CS_OFFL_SIR_IOP_2_20160713T124431_20160713T124837_B001 CS_OFFL_SIR_IOP_2_20160713T124431_20160713T124837_B001 CS_OFFL_SIR_IOP_2_20160713T124431_20160713T124837_B001 CS_OFFL_SIR_IOP_2_20160713T141810_20160713T142321_B001 CS_OFFL_SIR_IOP_2_20160713T142341_20160713T142321_B001 CS_OFFL_SIR_IOP_2_20160713T142341_20160713T142381_B0250_B001 CS_OFFL_SIR_IOP_2_20160713T142341_B0250_B001 CS_OFFL_SIR_IOP_2_20160713T142341_B0250_B001 CS_OFFL_SIR_IOP_2_20160713T142341_B0250_B001	P_220160713T074309_20160713T074501_B001	IR_IOP_220160713T074309_20160713T074501_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T110421_20160713T110940_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. CS_OFFL_SIR_IOP_2_20160713T124301_20160713T124837_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords. The Ice Backscatter Averaging Status Flag has been set for one or more cords.	P_220160713T074557_20160713T075036_B001	IR_IOP_2_20160713T074557_20160713T075036_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T110421_20160713T110940_B001	P_220160713T092514_20160713T093109_B001	IR_IOP_2_20160713T092514_20160713T093109_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T12431_20160713T124837_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records.	P_220160713T110421_20160713T110940_B001	IR_IOP_2_20160713T110421_20160713T110940_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T142341_20160713T142387_B001	P_2_20160713T124308_20160713T124423_B001	IR_IOP_220160713T124308_20160713T124423_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T142341_20160713T142636_B001	P_220160713T124431_20160713T124837_B001	IR_IOP_2_20160713T124431_20160713T124837_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160/13T142341_20160/13T142636_B001	P_220160713T141810_20160713T142321_B001	IR_IOP_220160713T141810_20160713T142321_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	P_220160713T142341_20160713T142636_B001	IR_IOP_2_20160713T142341_20160713T142636_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	P_2_20160713T160238_20160713T160250_B001	IR_IOP_220160713T160238_20160713T160250_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T160258_20160713T160423_B001	P_220160713T160258_20160713T160423_B001	IR_IOP_220160713T160258_20160713T160423_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T174137_20160713T174148_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mirror records.	P_220160713T174137_20160713T174148_B001	IR_IOP_2_20160713T174137_20160713T174148_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T174211_20160713T174315_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mercords.	P_2_20160713T174211_20160713T174315_B001	IR_IOP_2_20160713T174211_20160713T174315_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T191711_20160713T192046_B001	P_220160713T191711_20160713T192046_B001	IR_IOP_2_20160713T191711_20160713T192046_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T192108_20160713T192425_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mercords.	P_220160713T192108_20160713T192425_B001	IR_IOP_2_20160713T192108_20160713T192425_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T205453_20160713T210000_B001	P_220160713T205453_20160713T210000_B001	IR_IOP_2_20160713T205453_20160713T210000_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T210007_20160713T210335_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mercords.	P_220160713T210007_20160713T210335_B001	IR_IOP_220160713T210007_20160713T210335_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T223452_20160713T224032_B001	P_220160713T223452_20160713T224032_B001	IR_IOP_2_20160713T223452_20160713T224032_B001	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160713T224129_20160713T224234_B001	P_220160713T224129_20160713T224234_B001	IR_IOP_220160713T224129_20160713T224234_B001	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:

149