



1. Overview

Report Production Date:	02-May-2017		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Intermediate Ocean Products (IOP) L1B and L2 Science Data		

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

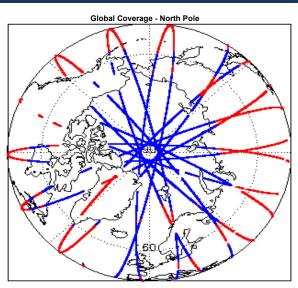
Mission / Instrument News

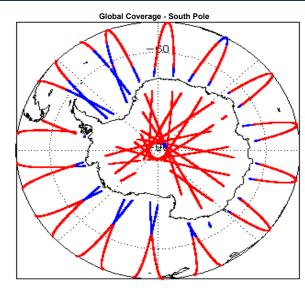
L0 SAR & SARIn data missing on 28-Apr-2017 due to an unplanned ground segment anomaly: 02:07:39 - 03:14:20 and 08:49:11 - 09:03:57 (SARIn); 09:03:57 - 09:23:41 (SAR & SARIn); 09:23:41 - 10:10:19 (SAR)

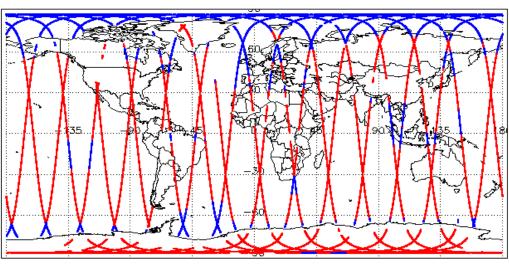
29-Apr-2017 None

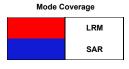
Nothing planned 30-Apr-2017

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:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

Number of products with errors

0

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

16

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20170429T010036_20170429T010617_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T015604_20170429T020057_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T023950_20170429T024641_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T055614_20170429T060627_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T075058_20170429T075255_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T105128_20170429T110249_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T123319_20170429T123846_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T131705_20170429T132225_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T133355_20170429T134922_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T135124_20170429T140048_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T142139_20170429T142604_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T172821_20170429T173039_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T203714_20170429T203754_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T221714_20170429T221745_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T223048_20170429T223837_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170429T224045_20170429T231424_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20170429T022954_20170429T023051_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_2_20170429T023232_20170429T023353_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_20170429T042403_20170429T042521_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_2_20170429T055614_20170429T060627_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_220170429T083538_20170429T090921_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_220170429T093048_20170429T093413_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_220170429T111844_20170429T113621_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_220170429T134923_20170429T135124_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_2_20170429T135124_20170429T140048_B001	Total Geocentric 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_220170429T141112_20170429T141750_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_220170429T142139_20170429T142604_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_2_20170429T175126_20170429T180050_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_220170429T183121_20170429T185951_B001		There is an error with the MSS height (solution 2) and Geiod height for one or more records
CS_OFFL_SIR_IOP_220170429T201619_20170429T201943_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_IOP_220170429T204301_20170429T204622_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_220170429T221927_20170429T222657_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_220170429T223901_20170429T224045_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

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:

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. 37

Number of products with errors:

Test Failed	Description
Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
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Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
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Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
	Ice Range Averaging Status

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:

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CS_OFFL_SIR_IOP_2_201704291001250_201704291001545_8001 CS_OFFL_SIR_IOP_2_201704291001250_201704291001543_8001 CS_OFFL_SIR_IOP_2_201704291001304_20170429100543_8001 CS_OFFL_SIR_IOP_2_20170429101304_20170429100543_8001 CS_OFFL_SIR_IOP_2_20170429101464_2017042910543_8001 CS_OFFL_SIR_IOP_2_20170429101464_201704291015141_8001 CS_OFFL_SIR_IOP_2_20170429101464_201704291015155_8001 CS_OFFL_SIR_IOP_2_20170429101552_20170429101501_8001 CS_OFFL_SIR_IOP_2_20170429101552_20170429101501_8001 CS_OFFL_SIR_IOP_2_201704291032565_201704291033052_8001 CS_OFFL_SIR_IOP_2_201704291033134_201704291033041_8001 CS_OFFL_SIR_IOP_2_20170429103101_201704291051008_8001 CS_OFFL_SIR_IOP_2_20170429101012_201704291015159_8001 CS_OFFL_SIR_IOP_2_20170429101012_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291010131_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291010131_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291010131_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291010131_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051013_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291051059_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291050257_8001 CS_OFFL_SIR_IOP_2_201704291051031_201704291050255_8001 CS_OFFL_SIR_IOP_2_20170429103031_201704291050255_8001 CS_OFFL_SIR_IOP_2_20170429103031_201704291105089_8001 CS_OFFL_SIR_IOP_2_20170429103031_201704291050255_8001 CS_OFFL_SIR_IOP_2_20170429103031_201704291050255_8001 CS_OFFL_SIR_IOP_2_20170429103031_201704291050255_8001 CS_OFFL_SIR_IOP_2_20170429103031_201704291050255_8001 CS_OFFL_SIR_IOP_2_201704291103031_2017042911050291_	
CS_OFFL_SIR_IOP_2_0170429T001504_20170429T001543_B001 CS_OFFL_SIR_IOP_2_0170429T005523_20170429T005942_B001 CS_OFFL_SIR_IOP_2_0170429T015149_20170429T015141_B001 CS_OFFL_SIR_IOP_2_0170429T015149_20170429T015155_B001 CS_OFFL_SIR_IOP_2_0170429T015149_20170429T015155_B001 CS_OFFL_SIR_IOP_2_0170429T015155_20170429T015155_B001 CS_OFFL_SIR_IOP_2_0170429T015155_20170429T015155_B001 CS_OFFL_SIR_IOP_2_0170429T015155_20170429T015201_B001 CS_OFFL_SIR_IOP_2_0170429T032556_20170429T033024_B001 CS_OFFL_SIR_IOP_2_0170429T032556_20170429T033024_B001 CS_OFFL_SIR_IOP_2_0170429T033134_20170429T033025_B001 CS_OFFL_SIR_IOP_2_0170429T033134_20170429T05105_B001 CS_OFFL_SIR_IOP_2_0170429T033134_20170429T05105_B001 CS_OFFL_SIR_IOP_2_0170429T05039_20170429T05105_B001 CS_OFFL_SIR_IOP_2_0170429T05039_20170429T05105_B001 CS_OFFL_SIR_IOP_2_0170429T051016_20170429T05105_B001 CS_OFFL_SIR_IOP_2_0170429T051016_20170429T051305_B001 CS_OFFL_SIR_IOP_2_0170429T051011_20170429T051305_B001 CS_OFFL_SIR_IOP_2_0170429T051011_20170429T051305_B001 CS_OFFL_SIR_IOP_2_0170429T051011_20170429T051055_B001 CS_OFFL_SIR_IOP_2_0170429T051011_20170429T051055_B001 CS_OFFL_SIR_IOP_2_0170429T051011_20170429T065257_B001 CS_OFFL_SIR_IOP_2_0170429T064920_B001 CS_OFFL_SIR_IOP_2_0170429T064920_B001 CS_OFFL_SIR_IOP_2_0170429T064920_B001 CS_OFFL_SIR_IOP_2_0170429T064920_B001 CS_OFFL_SIR_IOP_2_0170429T064920_B001 CS_OFFL_SIR_IOP_2_0170429T100341_20170429T100849_B001 CS_OFFL_SIR_IOP_2_0170429T103440_B001 CS_OFFL_SIR_IOP_2_0170429T114553_0170429T114752_B001 CS_OFFL_SIR_IOP_2_0170429T114553_0170429T114752_B001 CS_OFFL_SIR_IOP_2_0170429T164140_0170429T10429T06952B001 CS_OFFL_SIR_IOP_2_0170429T164140_0170429T114752_B001 CS_OFFL_SIR_IOP_2_0170429T114553_0170429T114752_B001 CS_OFFL_SIR_IOP_2_0170429T114553_0170429T114752_B001 CS_OFFL_SIR_IOP_2_0170429T164140_0170429T164952_B001 CS_OFFL_SIR_IOP_2_0170429T164140_0170429T164490_B001 CS_OFFL_SIR_IOP_2_0170429T164140_0170429T164952_B001 CS_OFFL_SIR_IOP_2_0170429T164140_0170429T164952_B001 CS_OFFL_SI	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_201704297105323_201704297105145_B001 CS_OFFL_SIR_IOP_2_201704297105149_201704297105155_B001 CS_OFFL_SIR_IOP_2_201704297105154_201704297105155_B001 CS_OFFL_SIR_IOP_2_201704297105155_201704297105155_B001 CS_OFFL_SIR_IOP_2_201704297105155_201704297105155_B001 CS_OFFL_SIR_IOP_2_201704297105155_201704297105101_B001 CS_OFFL_SIR_IOP_2_201704297032556_20170429703302_B001 CS_OFFL_SIR_IOP_2_201704297032556_20170429703302_B001 CS_OFFL_SIR_IOP_2_201704297033134_20170429703302_B001 CS_OFFL_SIR_IOP_2_201704297050639_201704297051008_B001 CS_OFFL_SIR_IOP_2_201704297050639_201704297051025_B001 CS_OFFL_SIR_IOP_2_201704297050101_201704297051035_B001 CS_OFFL_SIR_IOP_2_20170429705031201704297051035_B001 CS_OFFL_SIR_IOP_2_2017042970503134_201704297051359_B001 CS_OFFL_SIR_IOP_2_201704297050313_201704297051035_B001 CS_OFFL_SIR_IOP_2_201704297064929_201704297068292_B001 CS_OFFL_SIR_IOP_2_201704297064921_B001 CS_OFFL_SIR_IOP_2_201704297064929_201704297068225_B001 CS_OFFL_SIR_IOP_2_201704297064929_201704297082954_B001 CS_OFFL_SIR_IOP_2_201704297064929_201704297082954_B001 CS_OFFL_SIR_IOP_2_201704297100341_201704297082954_B001 CS_OFFL_SIR_IOP_2_20170429710341_201704297108295_B001 CS_OFFL_SIR_IOP_2_20170429710341_201704297108295_B001 CS_OFFL_SIR_IOP_2_20170429710341_201704297108295_B001 CS_OFFL_SIR_IOP_2_20170429710341_201704297108295_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297108295_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297108295_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297104297082954_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297113200_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297113200_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297113200_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297113200_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297113200_B001 CS_OFFL_SIR_IOP_2_201704297114553_201704297114208_B001 CS_OFFL_SIR_IOP_2_201704297164140_201704297164952_B001 CS_OFFL_SIR_IOP_2_201704297164140_201704297164952_B001 CS_OFFL_SIR_IOP_2_201704297164140_20170429716495	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T015149_20170429T015141_B001 CS_OFFL_SIR_IOP_2_20170429T015149_20170429T015155_B001 CS_OFFL_SIR_IOP_2_20170429T015155_20170429T015155_B001 CS_OFFL_SIR_IOP_2_20170429T015155_20170429T015201_B001 CS_OFFL_SIR_IOP_2_20170429T033134_20170429T033052_B001 CS_OFFL_SIR_IOP_2_20170429T033134_20170429T033241_B001 CS_OFFL_SIR_IOP_2_20170429T050639_20170429T05005_B001 CS_OFFL_SIR_IOP_2_20170429T050639_20170429T050525_B001 CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051505_B001 CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051505_B001 CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051559_B001 CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051559_B001 CS_OFFL_SIR_IOP_2_20170429T05039_20170429T052557_B001 CS_OFFL_SIR_IOP_2_20170429T064920_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T064290_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T064290_20170429T0649254_B001 CS_OFFL_SIR_IOP_2_20170429T063240_20170429T0649254_B001 CS_OFFL_SIR_IOP_2_20170429T063250_20170429T0649254_B001 CS_OFFL_SIR_IOP_2_20170429T063250_20170429T0649254_B001 CS_OFFL_SIR_IOP_2_20170429T063250_20170429T0649254_B001 CS_OFFL_SIR_IOP_2_20170429T063250_20170429T0649254_B001 CS_OFFL_SIR_IOP_2_20170429T063250_20170429T0649254_B001 CS_OFFL_SIR_IOP_2_20170429T063250_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T1063250_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T14550_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T14550_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T14550_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_2001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_2001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_0001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_0001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_0001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_0001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_0001 CS_OFFL_SIR_IOP_2_20170429T164165_20170429T164505_0001 CS_OFFL_SIR_IOP_2_20170429T	is Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T05149_20170429T015155_B001 CS_OFFL_SIR_IOP_2_20170429T015155_B001 CS_OFFL_SIR_IOP_2_20170429T015155_20170429T015201_B001 CS_OFFL_SIR_IOP_2_20170429T032556_20170429T015201_B001 CS_OFFL_SIR_IOP_2_20170429T033134_20170429T033052_B001 CS_OFFL_SIR_IOP_2_20170429T033134_20170429T0332241_B001 CS_OFFL_SIR_IOP_2_20170429T050639_20170429T051008_B001 CS_OFFL_SIR_IOP_2_20170429T05106_20170429T051025_B001 CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051025_B001 CS_OFFL_SIR_IOP_2_20170429T051012_0170429T051025_B001 CS_OFFL_SIR_IOP_2_20170429T051012_0170429T051039_B001 CS_OFFL_SIR_IOP_2_20170429T064029_20170429T064922_B001 CS_OFFL_SIR_IOP_2_20170429T064029_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T064029_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T08242_20170429T069224_B001 CS_OFFL_SIR_IOP_2_20170429T08242_20170429T062954_B001 CS_OFFL_SIR_IOP_2_20170429T08242_20170429T1002954_B001 CS_OFFL_SIR_IOP_2_20170429T108242_0170429T1002954_B001 CS_OFFL_SIR_IOP_2_20170429T10341_20170429T100349_B001 CS_OFFL_SIR_IOP_2_20170429T10341_20170429T100349_B001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114752_B001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114520_B001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T11420B_B001 CS_OFFL_SIR_IOP_2_20170429T114580_20170429T13200_B001 CS_OFFL_SIR_IOP_2_20170429T114580_20170429T13200_B001 CS_OFFL_SIR_IOP_2_20170429T141859_20170429T13200_B001 CS_OFFL_SIR_IOP_2_20170429T141859_20170429T151106_B001 CS_OFFL_SIR_IOP_2_20170429T141859_20170429T151106_B001 CS_OFFL_SIR_IOP_2_20170429T141859_20170429T16430_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2_20170429T16416_20170429T16495_B001 CS_OFFL_SIR_IOP_2	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T05155_20170429T05256_D001 CS_OFFL_SIR_IOP_2_20170429T032556_20170429T033052_B0001 CS_OFFL_SIR_IOP_2_20170429T032556_20170429T033052_B0001 CS_OFFL_SIR_IOP_2_20170429T033334_20170429T051008_B0001 CS_OFFL_SIR_IOP_2_20170429T050639_20170429T051008_B0001 CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051039_B0001 CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B0001 CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B0001 CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B0001 CS_OFFL_SIR_IOP_2_20170429T064421_20170429T0645257_B0001 CS_OFFL_SIR_IOP_2_20170429T064421_20170429T065257_B0001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T065257_B0001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T065257_B0001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T065257_B0001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T065257_B0001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T0682954_B0001 CS_OFFL_SIR_IOP_2_20170429T100341_20170429T100849_B0001 CS_OFFL_SIR_IOP_2_20170429T100341_20170429T100849_B0001 CS_OFFL_SIR_IOP_2_20170429T10341_20170429T114752_B0001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114752_B0001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114752_B0001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114752_B0001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114752_B0001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114208_B0001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114208_B0001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114208_B0001 CS_OFFL_SIR_IOP_2_20170429T16416140_20170429T1164349_B0001 CS_OFFL_SIR_IOP_2_20170429T16416140_20170429T164349_B0001 CS_OFFL_SIR_IOP_2_20170429T16416140_20170429T164349_B0001 CS_OFFL_SIR_IOP_2_20170429T164145_20170429T164349_B0001 CS_OFFL_SIR_IOP_2_20170429T164145_20170429T164349_B0001 CS_OFFL_SIR_IOP_2_20170429T164145_20170429T164359_B0001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T164359_B0001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T164359_B0001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T164359_B0001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T164	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T0315159_E0170429T033052_B001 CS_OFFL_SIR_IOP_2_20170429T032556_20170429T033052_B001 CS_OFFL_SIR_IOP_2_20170429T033134_20170429T05108_B001 CS_OFFL_SIR_IOP_2_20170429T050639_20170429T05108_B001 CS_OFFL_SIR_IOP_2_20170429T05106_20170429T051025_B001 CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051025_B001 CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B001 CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B001 CS_OFFL_SIR_IOP_2_20170429T064421_20170429T064922_B001 CS_OFFL_SIR_IOP_2_20170429T064421_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T064421_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T065257_B001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T068492_B001 CS_OFFL_SIR_IOP_2_20170429T064292_20170429T1082954_B001 CS_OFFL_SIR_IOP_2_20170429T064290_20170429T10849_B001 CS_OFFL_SIR_IOP_2_20170429T100341_20170429T10849_B001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114752_B001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T1132004_B001 CS_OFFL_SIR_IOP_2_20170429T114553_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T114559_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T114559_20170429T132004_B001 CS_OFFL_SIR_IOP_2_20170429T114559_20170429T1142008_B001 CS_OFFL_SIR_IOP_2_20170429T114559_20170429T1142008_B001 CS_OFFL_SIR_IOP_2_20170429T114559_20170429T1142008_B001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T164140_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439_B001 CS_OFFL_SIR_IOP_2_20170429T16415_20170429T16439	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T033134_20170429T051038_B001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051008_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051025_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T064421_20170429T064922_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T064421_20170429T064922_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T064421_20170429T062954_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T084420_20170429T082954_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T10341_20170429T10849_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T132501_20170429T114752_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T132501_20170429T132702_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T132809_20170429T132702_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T141859_20170429T151106_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T164140_20170429T164349_B001 Ice Backscatter Averaging Status records. The	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T050639_20170429T051008_B001 Ice Backscatter Averaging Status Fecords. The Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051025_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170429T064421_20170429T064922_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170429T064929_20170429T065257_B001 Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170429T064929_20170429T065257_B001 Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170429T100341_20170429T100849_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170429T114553_20170429T114752_B001 Ice Backscatter Averaging Status Ice Backscatter	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T051016_20170429T051025_B001	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T051031_20170429T051359_B001 CS_OFFL_SIR_IOP_2_20170429T064021_20170429T064922_B001 CS_OFFL_SIR_IOP_2_20170429T064021_20170429T064922_B001 Loe Backscatter Averaging Status records. The loe Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170429T064929_20170429T065257_B001 Loe Backscatter Averaging Status records. The loe Backscatter Averaging Status records	us Flag has been set for one or more
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CS_OFFL_SIR_IOP_2_20170429T182102_20170429T182209_B001	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_201704291182349_201704291182209_B001 lice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_201704291182349_201704291182827_B001 lice Backscatter Averaging Status records. The Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status records.	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_201704291182349_201704291182827_B001 lice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_201704291182349_201704291182847_B001 lice Backscatter Averaging Status records. The lice Backscatter Averaging Status records.	us Flag has been set for one or more
	is Flag has been set for one or more
	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T200259_20170429T200831_B001	is Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T214202_20170429T214714_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status records.	us Flag has been set for one or more
CS_OFFL_SIR_IOP_2_20170429T231823_20170429T232201_B001	us Flag has been set for one or more

CS_OFFL_SIR_IOP_220170429T232207_20170429T232214_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170429T232215_20170429T232218_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170429T232219_20170429T232615_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.

140

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:

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	261	261	261	0	0
SIR_IOP_2	258	258	258	0	0

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