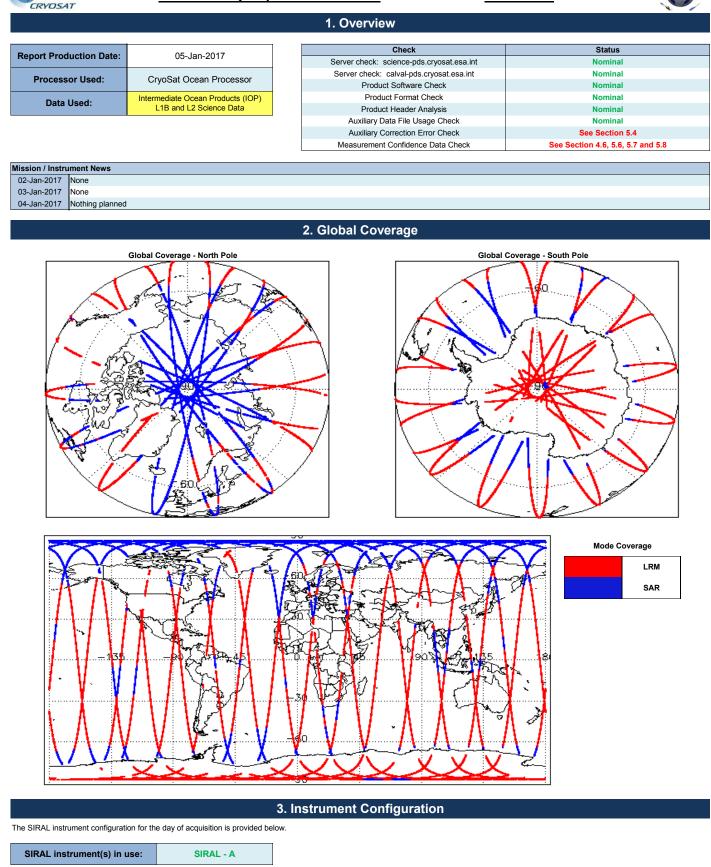


IDEAS+ Daily Report for IOP data:

03/01/2017





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.

	e determined becaling and -t t-	sheel the velidity of Auvilian. Data Files is correct
Each product is checked for missing Data Set Descriptors with respect to a pr Number of products with errors: 0	re-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 measurer	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	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		
CryoSat L1B data includes a waveform data flag (field 65) for each measurem	nent record. The bit value of this fla	ag indicates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
Number of products with errors: 16		
	Test Failed	Description
Product		Description The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001	Test Failed	
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001	Test Failed Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001	Test Failed Loss of Echo Loss of Echo Loss of Echo	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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001	Test Failed Loss of Echo Loss of Echo Loss of Echo Loss of Echo	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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T0130825_20170103T0131136_B001	Test Failed Loss of Echo	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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T0130825_20170103T0131136_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T072502_B001	Test Failed Loss of Echo	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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T0130825_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T030825_20170103T0131136_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T072502_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T074112_B001	Test Failed Loss of Echo	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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T01325_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T0131136_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T072502_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T074112_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T074112_B001	Test Failed Loss of Echo	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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T0139825_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T072502_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T074112_B001 CS_OFFL_SIR_IOP_1B_20170103T0780844_20170103T081102_B001 CS_OFFL_SIR_IOP_1B_20170103T091732_20170103T081102_B001	Test Failed Loss of Echo	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 The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T072502_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T074112_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T081102_B001 CS_OFFL_SIR_IOP_1B_20170103T091732_20170103T095123_B001 CS_OFFL_SIR_IOP_1B_20170103T141321_20170103T141606_B001	Test Failed Loss of Echo	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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013042_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T0130825_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T072502_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T074112_B001 CS_OFFL_SIR_IOP_1B_20170103T080844_20170103T081102_B001 CS_OFFL_SIR_IOP_1B_20170103T0414321_20170103T0414606_B001 CS_OFFL_SIR_IOP_1B_20170103T141321_20170103T141606_B001 CS_OFFL_SIR_IOP_1B_20170103T1445202_20170103T150118_B001	Test Failed Loss of Echo	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 The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013016_2001	Test Failed Loss of Echo Loss of Echo	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 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
Product CS_OFFL_SIR_IOP_1B_20170103T000102_20170103T000255_B001 CS_OFFL_SIR_IOP_1B_20170103T000313_20170103T000839_B001 CS_OFFL_SIR_IOP_1B_20170103T012928_20170103T013016_B001 CS_OFFL_SIR_IOP_1B_20170103T013125_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T013316_B001 CS_OFFL_SIR_IOP_1B_20170103T013942_20170103T014035_B001 CS_OFFL_SIR_IOP_1B_20170103T070919_20170103T072502_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T074112_B001 CS_OFFL_SIR_IOP_1B_20170103T073611_20170103T081102_B001 CS_OFFL_SIR_IOP_1B_20170103T091732_20170103T095123_B001 CS_OFFL_SIR_IOP_1B_20170103T141321_20170103T141606_B001 CS_OFFL_SIR_IOP_1B_20170103T1415202_20170103T150118_B001 CS_OFFL_SIR_IOP_1B_20170103T145202_20170103T150118_B001	Test Failed Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 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_220170103T031339_20170103T031513_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_220170103T034444_20170103T040647_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_220170103T050149_20170103T050938_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_220170103T051131_20170103T051311_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_220170103T051312_20170103T054553_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records

CS_OFFL_SIR_IOP_220170103T065445_20170103T070714_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_220170103T075750_20170103T080844_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_220170103T082000_20170103T082648_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_220170103T095123_20170103T095339_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_220170103T100415_20170103T100525_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_220170103T101917_20170103T104349_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_IOP_220170103T132217_20170103T132348_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_220170103T133109_20170103T133307_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_20170103T165337_20170103T171628_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_220170103T181136_20170103T181255_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_20170103T184318_20170103T185703_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_220170103T193133_20170103T194057_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_20170103T195121_20170103T195757_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_20170103T200441_20170103T200626_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_20170103T200627_20170103T200657_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_2_20170103T200657_20170103T200852_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_20170103T210837_20170103T211630_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_220170103T231238_20170103T231720_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_220170103T232931_20170103T234058_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: 0

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170103T005447_20170103T010038_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T014221_20170103T015014_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T023353_20170103T023909_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T041236_20170103T041354_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T041402_20170103T041808_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T050149_20170103T050938_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T054736_20170103T055252_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T055259_20170103T055305_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T055305_20170103T055312_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T055312_20170103T055557_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T063550_20170103T063950_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T072648_20170103T073150_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T073150_20170103T073157_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T073204_20170103T073209_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220170103T073210_20170103T073221_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T073229_20170103T073352_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T090601_20170103T091100_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T091142_20170103T091248_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T104646_20170103T105017_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T105024_20170103T105033_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T105039_20170103T105407_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T122428_20170103T122931_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T122938_20170103T123305_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T140427_20170103T141003_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T141148_20170103T141205_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T150142_20170103T150151_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T150215_20170103T150311_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T154349_20170103T154858_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T172558_20170103T172801_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T190510_20170103T190710_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T190821_20170103T191212_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T195908_20170103T200022_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T204320_20170103T205113_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T222148_20170103T222359_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T222419_20170103T223002_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T231107_20170103T231203_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T231238_20170103T231720_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. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170103T005447_20170103T010038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T014221_20170103T015014_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T023353_20170103T023909_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T041402_20170103T041808_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T050149_20170103T050938_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T054736_20170103T055252_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T055305_20170103T055312_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T055312_20170103T055557_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T063550_20170103T063950_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T073210_20170103T073221_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T090601_20170103T091100_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T091142_20170103T091248_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T104646_20170103T105017_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T105039_20170103T105407_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T122428_20170103T122931_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T122938_20170103T123305_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T140427_20170103T141003_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T141148_20170103T141205_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T150142_20170103T150151_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T150215_20170103T150311_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220170103T154349_20170103T154858_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T172558_20170103T172801_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T190510_20170103T190710_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T190821_20170103T191212_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T195908_20170103T200022_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T204320_20170103T205113_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T222148_20170103T222359_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T222419_20170103T223002_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170103T231107_20170103T231203_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170103T231238_20170103T231720_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.

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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	276	276	276	0	0
SIR_IOP_2	274	274	274	0	0
A 4 000 Fame as					
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			