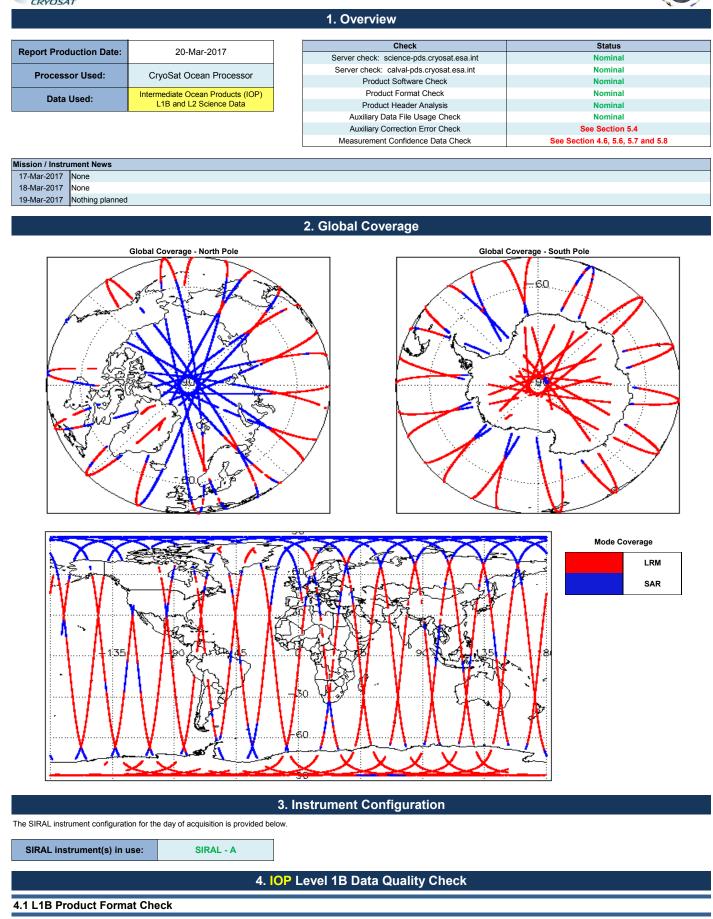


IDEAS+ Daily Report for IOP data:

<u>18/03/2017</u>





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

Number of products with errors:

4.2 L1B Product Header Analysis

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

Each and duct is also deal for mission Date Oat Descriptions. ""	and the section of the section of the sector	ale all the colletter of Annillee a Data Elles is someth
Each product is checked for missing Data Set Descriptors with respect to a pr	e-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 measuren	nent 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		
A C L 4D Waysform Crown Data Chaele		
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.
.oss 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_20170318T035742_20170318T035944_B001	Test Failed	
Product CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T044827_20170318T050103_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T044827_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_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
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T044827_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T044827_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T044827_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T091336_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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T05044827_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T08344529_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T02425_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T02425_20170318T102605_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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T05044827_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T084529_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T102425_20170318T102605_B001 CS_OFFL_SIR_IOP_1B_20170318T131941_20170318T132052_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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T05044627_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T084529_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T102425_20170318T102605_B001 CS_OFFL_SIR_IOP_1B_20170318T131941_20170318T132052_B001 CS_OFFL_SIR_IOP_1B_20170318T144123_20170318T144228_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
Product CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T084529_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T102425_20170318T102605_B001 CS_OFFL_SIR_IOP_1B_20170318T131941_20170318T132052_B001 CS_OFFL_SIR_IOP_1B_20170318T144123_20170318T144238_B001 CS_OFFL_SIR_IOP_1B_20170318T165844_20170318T170838_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
Product CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T084529_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T102425_20170318T102605_B001 CS_OFFL_SIR_IOP_1B_20170318T131941_20170318T132052_B001 CS_OFFL_SIR_IOP_1B_20170318T165844_20170318T170838_B001 CS_OFFL_SIR_IOP_1B_20170318T165844_20170318T170838_B001 CS_OFFL_SIR_IOP_1B_20170318T182014_20170318T182731_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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T035742_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T050709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T084529_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T102425_20170318T102605_B001 CS_OFFL_SIR_IOP_1B_20170318T131941_20170318T132052_B001 CS_OFFL_SIR_IOP_1B_20170318T144123_20170318T144238_B001 CS_OFFL_SIR_IOP_1B_20170318T18544_20170318T170838_B001 CS_OFFL_SIR_IOP_1B_20170318T182014_20170318T182731_B001 CS_OFFL_SIR_IOP_1B_20170318T183230_20170318T183249_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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T044827_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_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 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_20170318T035742_20170318T035944_B001 CS_OFFL_SIR_IOP_1B_20170318T050446_20170318T050103_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T050406_20170318T050445_B001 CS_OFFL_SIR_IOP_1B_20170318T051005_20170318T051709_B001 CS_OFFL_SIR_IOP_1B_20170318T083431_20170318T083718_B001 CS_OFFL_SIR_IOP_1B_20170318T084529_20170318T091336_B001 CS_OFFL_SIR_IOP_1B_20170318T102425_20170318T102605_B001 CS_OFFL_SIR_IOP_1B_20170318T131941_20170318T132052_B001 CS_OFFL_SIR_IOP_1B_20170318T144123_20170318T144238_B001 CS_OFFL_SIR_IOP_1B_20170318T182044_20170318T170838_B001 CS_OFFL_SIR_IOP_1B_20170318T182014_20170318T182731_B001 CS_OFFL_SIR_IOP_1B_20170318T183230_20170318T183249_B001 CS_OFFL_SIR_IOP_1B_20170318T200244_20170318T200753_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

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_220170318T083431_20170318T083719_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_220170318T084529_20170318T091336_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_220170318T101551_20170318T101759_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170318T104802_20170318T105001_B001	Geoid Height	There is an error with the Geoid height for one or more records
	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_220170318T142502_20170318T144120_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_220170318T153123_20170318T153337_B001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20170318T162046_20170318T164129_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_220170318T164240_20170318T164322_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_220170318T165844_20170318T170838_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_20170318T182014_20170318T182731_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_220170318T200244_20170318T200753_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_220170318T213617_20170318T213812_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_20170318T214142_20170318T214951_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_220170318T231327_20170318T231524_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_220170318T233255_20170318T234127_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_220170318T010219_20170318T010409_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T010416_20170318T010829_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T014954_20170318T015041_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T023746_20170318T024308_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T024308_20170318T024314_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T024314_20170318T024320_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T024321_20170318T024327_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T024327_20170318T024540_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T032914_20170318T032952_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T041712_20170318T042207_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T042212_20170318T042219_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T042219_20170318T042225_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T042243_20170318T042401_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T055648_20170318T060120_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T060120_20170318T060123_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T060157_20170318T060314_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T073643_20170318T074034_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T074055_20170318T074420_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T083431_20170318T083719_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T091500_20170318T091947_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T091953_20170318T092323_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T105452_20170318T110016_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T115203_20170318T115219_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T123418_20170318T123914_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T133521_20170318T134232_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T141626_20170318T141819_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220170318T151022_20170318T151318_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T155519_20170318T155731_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T155815_20170318T160231_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T164923_20170318T164958_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T173311_20170318T174134_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T191211_20170318T191408_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T191456_20170318T191950_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T200105_20170318T200221_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T205138_20170318T205210_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T205417_20170318T210015_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T223325_20170318T223846_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. 32

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170318T010219_20170318T010409_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T010416_20170318T010829_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T014954_20170318T015041_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T023746_20170318T024308_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T024314_20170318T024320_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T024321_20170318T024327_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T024327_20170318T024540_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T032914_20170318T032952_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T042219_20170318T042225_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T042243_20170318T042401_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T055648_20170318T060120_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T060157_20170318T060314_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T073643_20170318T074034_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T074055_20170318T074420_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T083431_20170318T083719_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T091500_20170318T091947_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T091953_20170318T092323_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T105452_20170318T110016_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T115203_20170318T115219_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T123418_20170318T123914_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T133521_20170318T134232_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T141626_20170318T141819_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T151022_20170318T151318_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T155519_20170318T155731_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T155815_20170318T160231_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170318T164923_20170318T164958_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. 158 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.

Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
267	267	267	0	0
264	264	264	0	0
ors: 0)			
rnings ()			
ts				
g QCC reports: 0)			
r	264 ors: () mings () ts	264 264 ors: 0 mings 0 ts	264 264 264 ors: 0 0 0 mings 0 0 0 0	264 264 0 ors: 0