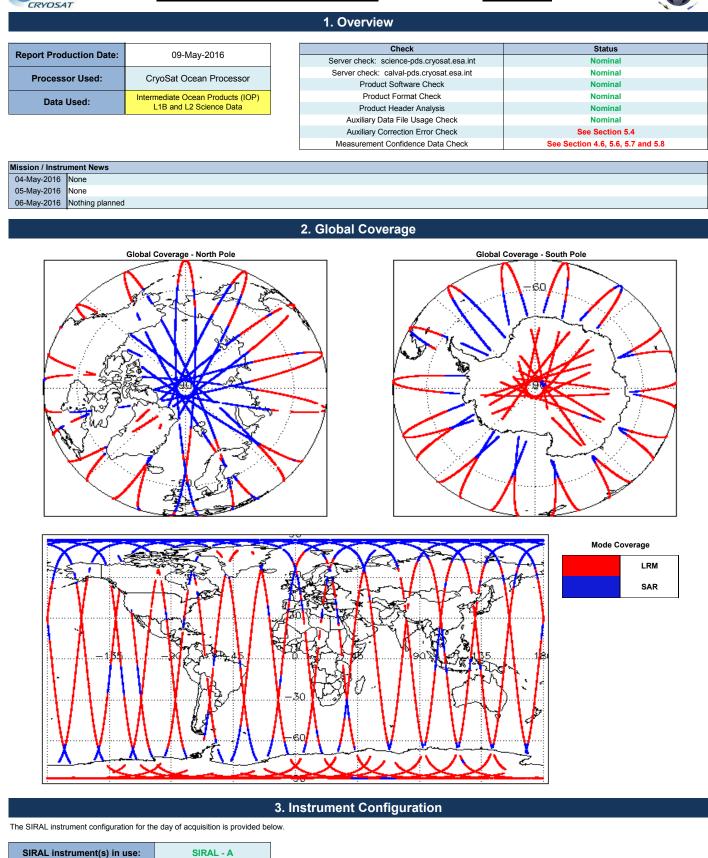


IDEAS+ Daily Report for IOP data:

05/05/2016





SIRAL instrument(s) in use:

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

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.

0

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: 0			
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: 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			
Number of products with errors: 17			
	Test Failed	Description	
Product	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records	
Product CS_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001			
Product CS_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001	Loss of Echo	The tracking echo is missing for one or more records	
Product CS_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001	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_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001	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_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001	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_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001 CS_OFFL_SIR_IOP_1B_20160505T090616_20160505T090739_B001 CS_OFFL_SIR_IOP_1B_20160505T090616_20160505T090739_B001 CS_OFFL_SIR_IOP_1B_20160505T091756_20160505T092012_B001	Loss of Echo 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 The tracking echo is missing for one or more records	
Product CS_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001 CS_OFFL_SIR_IOP_1B_20160505T090616_20160505T090739_B001 CS_OFFL_SIR_IOP_1B_20160505T090616_20160505T090739_B001 CS_OFFL_SIR_IOP_1B_20160505T091756_20160505T092012_B001	Loss of Echo Loss of Echo 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 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_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001 CS_OFFL_SIR_IOP_1B_20160505T090616_20160505T09739_B001 CS_OFFL_SIR_IOP_1B_20160505T091756_20160505T092012_B001 CS_OFFL_SIR_IOP_1B_20160505T0917454_20160505T092012_B001	Loss of Echo Loss of Echo Loss of Echo 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 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 SS_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001 SS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 SS_OFFL_SIR_IOP_1B_20160505T064913_20160505T07439_B001 SS_OFFL_SIR_IOP_1B_20160505T07620_20160505T071727_B001 SS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001 SS_OFFL_SIR_IOP_1B_20160505T090616_20160505T090739_B001 SS_OFFL_SIR_IOP_1B_20160505T091756_20160505T092012_B001 SS_OFFL_SIR_IOP_1B_20160505T104344_20160505T104720_B001 SS_OFFL_SIR_IOP_1B_20160505T114723_20160505T121425_B001 SS_OFFL_SIR_IOP_1B_20160505T135433_20160505T135541_B001	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	
Product SS_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001 SS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 SS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001 SS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 SS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001 SS_OFFL_SIR_IOP_1B_20160505T090616_20160505T09039_B001 SS_OFFL_SIR_IOP_1B_20160505T091756_20160505T092012_B001 SS_OFFL_SIR_IOP_1B_20160505T104344_20160505T104720_B001 SS_OFFL_SIR_IOP_1B_20160505T114723_20160505T121425_B001 SS_OFFL_SIR_IOP_1B_20160505T135433_20160505T135541_B001 SS_OFFL_SIR_IOP_1B_20160505T135926_20160505T140001_B001	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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records	
Product 2S_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T064913_20160505T070439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001 CS_OFFL_SIR_IOP_1B_20160505T090616_20160505T090739_B001 CS_OFFL_SIR_IOP_1B_20160505T091756_20160505T092012_B001 CS_OFFL_SIR_IOP_1B_20160505T104344_20160505T104720_B001 CS_OFFL_SIR_IOP_1B_20160505T114723_20160505T121425_B001 CS_OFFL_SIR_IOP_1B_20160505T135433_20160505T135541_B001 CS_OFFL_SIR_IOP_1B_20160505T135926_20160505T14001_B001 CS_OFFL_SIR_IOP_1B_20160505T1405392_20160505T141328_B001	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_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T041553_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T070439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T080706_20160505T081108_B001 CS_OFFL_SIR_IOP_1B_20160505T090616_20160505T090739_B001 CS_OFFL_SIR_IOP_1B_20160505T104344_20160505T090212_B001 CS_OFFL_SIR_IOP_1B_20160505T104344_20160505T104720_B001 CS_OFFL_SIR_IOP_1B_20160505T114723_20160505T121425_B001 CS_OFFL_SIR_IOP_1B_20160505T13543_20160505T135541_B001 CS_OFFL_SIR_IOP_1B_20160505T140539_20160505T141328_B001 CS_OFFL_SIR_IOP_1B_20160505T140539_20160505T141328_B001 CS_OFFL_SIR_IOP_1B_20160505T140539_20160505T145033_B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e	
Number of products with errors: 17 Product CS_OFFL_SIR_IOP_1B_20160505T004855_20160505T005638_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T0141553_B001 CS_OFFL_SIR_IOP_1B_20160505T040641_20160505T07439_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T070620_20160505T071727_B001 CS_OFFL_SIR_IOP_1B_20160505T080706_20160505T090739_B001 CS_OFFL_SIR_IOP_1B_20160505T090765_20160505T092012_B001 CS_OFFL_SIR_IOP_1B_20160505T04344_20160505T104720_B001 CS_OFFL_SIR_IOP_1B_20160505T14732_20160505T121425_B001 CS_OFFL_SIR_IOP_1B_20160505T135433_20160505T135541_B001 CS_OFFL_SIR_IOP_1B_20160505T135926_20160505T141028_B001 CS_OFFL_SIR_IOP_1B_20160505T135926_20160505T141328_B001 CS_OFFL_SIR_IOP_1B_20160505T135926_20160505T141328_B001 CS_OFFL_SIR_IOP_1B_20160505T141649_20160505T145033_B001 CS_OFFL_SIR_IOP_1B_20160505T1353246_20160505T145033_B001 CS_OFFL_SIR_IOP_1B_20160505T1353246_20160505T145033_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T145033_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T145033_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T145033_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T153444_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T153444_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T153444_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T153444_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T153444_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T153444_B001 CS_OFFL_SIR_IOP_1B_20160505T153246_20160505T153444_B001 CS_OFFL_SIR_	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

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

Loss of Echo

Loss of Echo

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.

CS_OFFL_SIR_IOP_1B_20160505T193250_20160505T194747_B001

CS_OFFL_SIR_IOP_1B_20160505T222137_20160505T222645_B001

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_220160504T235921_20160505T000440_B001	Dry Tropospheric Correction, Wet Tropospheric Correction, U-wind and V- wind Components	There is an error with the Meteo Corrections for one or more records
CS_OFFL_SIR_IOP_220160505T012732_20160505T013112_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_IOP_220160505T041926_20160505T042553_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160505T070439_20160505T070532_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_220160505T070533_20160505T070616_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_220160505T070620_20160505T071727_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_220160505T090616_20160505T090739_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_220160505T091756_20160505T092012_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_220160505T114723_20160505T121425_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160505T140124_20160505T140159_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_220160505T154526_20160505T155630_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_220160505T164507_20160505T171059_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_IOP_220160505T173658_20160505T180855_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_220160505T182721_20160505T183947_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_220160505T191014_20160505T191136_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_220160505T193250_20160505T194747_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_220160505T203302_20160505T203354_B001		There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) 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. 33

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160504T235921_20160505T000440_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T000447_20160505T000812_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T005714_20160505T005913_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T013921_20160505T014717_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T031853_20160505T032406_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T050033_20160505T050307_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T064019_20160505T064214_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T064415_20160505T064718_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T073410_20160505T073621_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T081853_20160505T082134_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T082151_20160505T082451_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T082451_20160505T082525_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T095645_20160505T100527_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T113614_20160505T113746_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T113900_20160505T114321_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T131813_20160505T132400_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T145718_20160505T150231_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T163539_20160505T163718_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T163725_20160505T164136_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T172326_20160505T172345_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T181053_20160505T181617_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T181623_20160505T181629_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220160505T181629_20160505T181636_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T181636_20160505T181856_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T190159_20160505T190313_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T195019_20160505T195514_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T195528_20160505T195534_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T195552_20160505T195711_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T213432_20160505T213444_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T213506_20160505T213620_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T231000_20160505T231341_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T231348_20160505T231358_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T231404_20160505T231729_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. 27

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20160504T235921_20160505T000440_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T000447_20160505T000812_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T005714_20160505T005913_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T013921_20160505T014717_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T031853_20160505T032406_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T050033_20160505T050307_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T064019_20160505T064214_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T064415_20160505T064718_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T081853_20160505T082134_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T082151_20160505T082451_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T095645_20160505T100527_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T113614_20160505T113746_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T113900_20160505T114321_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T131813_20160505T132400_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T163539_20160505T163718_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T163725_20160505T164136_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T181053_20160505T181617_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T181629_20160505T181636_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T181636_20160505T181856_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T190159_20160505T190313_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T195019_20160505T195514_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T195528_20160505T195534_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T195552_20160505T195711_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T213432_20160505T213444_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T213506_20160505T213620_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T231000_20160505T231341_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160505T231404_20160505T231729_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.