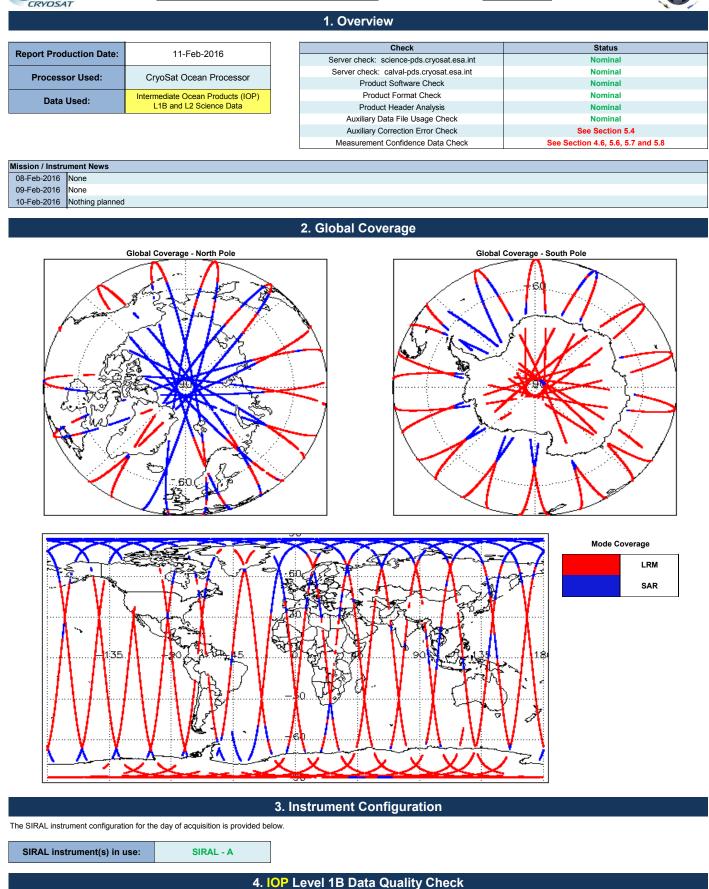


# IDEAS+ Daily Report for IOP data:

# <u>09/02/2016</u>





### 4.1 L1B Product Format Check

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

#### \_\_\_\_\_

## 4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check						
Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.				
Number of products with errors:     0       4.4 L1B Auxiliary Correction Error Check						
						nont record. The hit value of this flag indicates r
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 Number of products with errors: 0	measurement record. The bit value of this flag i	indicates any problems when set.				
4.6 L1B Waveform Group Data Check						
						CryoSat L1B data includes a waveform data flag (field 65) for each measurem
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 9 9	to be expected.					
Product	Test Failed	Description				
CS_OFFL_SIR_IOP_1B_20160209T005159_20160209T005249_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T024231_20160209T024415_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T124216_20160209T124400_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T124538_20160209T124737_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T154655_20160209T154901_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T154931_20160209T155038_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T160813_20160209T163635_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T185518_20160209T185857_B001	Loss of Echo	The tracking echo is missing for one or more records				
CS_OFFL_SIR_IOP_1B_20160209T203807_20160209T204656_B001	Loss of Echo	The tracking echo is missing for one or more records				
5. 10	OP Level 2 Data Quality Che	eck				
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 (.I	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 an	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.				
Number of products with errors: 0						
5.3 L2 Auxiliary Data File Usage Check						
	a determined baseline and also to shoek the ve	lidity of Auvilians Data Files is correct				
Each product is checked for missing Data Set Descriptors with respect to a pr Wind Model File Usage: This file is currently not included in all L2 products.	3-determined baseline and also to check the va	indity of Auxiliary Data Files is correct.				
Number of products with errors: 0						
5.4 L2 Auxiliary Correction Error Check						
For all products, the auxiliary corrections within the Geophysical Group are ch	ecked for the default error value (32767).					
	Eevel 2 products which are expected due to	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 a		o surface type. All common flags are summarised in the list below,				
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 16	and sea ice, but this is to be expected.	o surface type. All common flags are summarised in the list below,				
•	and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected.					
•	and sea ice, but this is to be expected.	Description				
Product	and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected.					
Product CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001	and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected.	Description There is an error with the Total Geocentric Ocean Tide height (solution GOT) for one or more records				
Product CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001 CS_OFFL_SIR_IOP_220160209T011901_20160209T012716_B001	and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected.           Test Failed           Total Geocentric Ocean Tide (GOT)	Description There is an error with the Total Geocentric Ocean Tide height (solution GOT) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2				
Product CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001 CS_OFFL_SIR_IOP_220160209T011901_20160209T012716_B001 CS_OFFL_SIR_IOP_220160209T024231_20160209T024415_B001	and sea ice, but this is to be expected.         rer land and sea ice, but this is to be expected.         Test Failed         Total Geocentric Ocean Tide (GOT)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES), Non	Description           There is an error with the Total Geocentric Ocean Tide height (solution GOT) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution : FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height (solution : FES) and the Port of the Po				
Product           CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001           CS_OFFL_SIR_IOP_220160209T011901_20160209T012716_B001           CS_OFFL_SIR_IOP_220160209T024231_20160209T024415_B001           CS_OFFL_SIR_IOP_220160209T060400_20160209T060601_B001	and sea ice, but this is to be expected.         rer land and sea ice, but this is to be expected.         Test Failed         Total Geocentric Ocean Tide (GOT)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	Description           There is an error with the Total Geocentric Ocean Tide height (solution GOT) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records           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           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height for one or period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height for one or period Ocean Tide height for one				
Product           CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001           CS_OFFL_SIR_IOP_220160209T011901_20160209T012716_B001           CS_OFFL_SIR_IOP_2_20160209T024231_20160209T024415_B001           CS_OFFL_SIR_IOP_2_20160209T060400_20160209T060601_B001           CS_OFFL_SIR_IOP_2_20160209T061240_20160209T061428_B001	and sea ice, but this is to be expected.         rer land and sea ice, but this is to be expected.         Test Failed         Total Geocentric Ocean Tide (GOT)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	Description         There is an error with the Total Geocentric Ocean Tide height (solution 5 GOT) for one or more records         There is an error with the Total Geocentric Ocean Tide height (solution 5 FES) for one or more records         There is an error with the Total Geocentric Ocean Tide height (solution 5 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 5 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 5 FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records         There is an error with the Total Geocentric Ocean Tide height (solution 5 FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records         There is an error with the Total Geocentric Ocean Tide height (solution 5 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 5 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 5 FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records				
Product           CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001           CS_OFFL_SIR_IOP_2_20160209T011901_20160209T012716_B001           CS_OFFL_SIR_IOP_2_20160209T024231_20160209T024415_B001           CS_OFFL_SIR_IOP_2_20160209T060400_20160209T060601_B001           CS_OFFL_SIR_IOP_2_20160209T061240_20160209T061428_B001           CS_OFFL_SIR_IOP_2_20160209T061240_20160209T061428_B001           CS_OFFL_SIR_IOP_2_20160209T072758_20160209T073947_B001	Test Failed         Test Failed         Total Geocentric Ocean Tide (GOT)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	Description           There is an error with the Total Geocentric Ocean Tide height (solution GOT) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records           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           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           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records				
Product           CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001           CS_OFFL_SIR_IOP_2_20160209T011901_20160209T012716_B001           CS_OFFL_SIR_IOP_2_20160209T024231_20160209T024415_B001           CS_OFFL_SIR_IOP_2_20160209T060400_20160209T060601_B001           CS_OFFL_SIR_IOP_2_20160209T061240_20160209T061428_B001           CS_OFFL_SIR_IOP_2_20160209T072758_20160209T061428_B001           CS_OFFL_SIR_IOP_2_20160209T072758_20160209T073947_B001           CS_OFFL_SIR_IOP_2_20160209T074526_20160209T074743_B001	Test Failed         Total Geocentric Ocean Tide (GOT)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide (FES)	Description           There is an error with the Total Geocentric Ocean Tide height (solution GOT) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records				
Number of products with errors:         16           Product         CS_OFFL_SIR_IOP_220160209T004802_20160209T004908_B001         CS_OFFL_SIR_IOP_220160209T014802_20160209T012716_B001           CS_OFFL_SIR_IOP_220160209T024231_20160209T024415_B001         CS_OFFL_SIR_IOP_220160209T060400_20160209T060601_B001           CS_OFFL_SIR_IOP_220160209T061240_20160209T061428_B001         CS_OFFL_SIR_IOP_220160209T072758_20160209T073947_B001           CS_OFFL_SIR_IOP_220160209T074526_20160209T074743_B001         CS_OFFL_SIR_IOP_220160209T074526_20160209T074743_B001           CS_OFFL_SIR_IOP_220160209T07175526_20160209T074743_B001         CS_OFFL_SIR_IOP_2_20160209T074526_20160209T074743_B001	Test Failed         Test Failed         Total Geocentric Ocean Tide (GOT)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES)         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide         Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide (FES)	Description           There is an error with the Total Geocentric Ocean Tide height (solution GOT) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records           There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equili				

CS_OFFL_SIR_IOP_220160209T120958_20160209T121921_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160209T123107_20160209T123145_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160209T124738_20160209T125850_B001	Lotal Geocentric Ocean Lide (EES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160209T172445_20160209T172629_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_220160209T203807_20160209T204656_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160209T224312_20160209T225020_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_220160209T225502_20160209T231245_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

# 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_220160209T001057_20160209T001217_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T014450_20160209T014931_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T014936_20160209T014948_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T014955_20160209T015003_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T015010_20160209T015123_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T032508_20160209T032845_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T032908_20160209T033234_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T042240_20160209T042512_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T050304_20160209T050759_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T050807_20160209T051135_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T064302_20160209T064830_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T082223_20160209T082727_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T100439_20160209T100631_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T105841_20160209T110117_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T114335_20160209T114542_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T114635_20160209T115043_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T123738_20160209T123827_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T132131_20160209T132945_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T150022_20160209T150224_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T150304_20160209T150816_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T163945_20160209T164035_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T164229_20160209T164832_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T182137_20160209T182703_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T200141_20160209T200145_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T200145_20160209T200553_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T213557_20160209T214038_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T214039_20160209T214044_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160209T214045_20160209T214052_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T214058_20160209T214438_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T231421_20160209T231937_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T231943_20160209T231949_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

### Ice Range Averaging Status

The Ice Range Averaging Status Flag has been set for one or more records

## 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_220160209T014450_20160209T014931_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T014936_20160209T014948_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T014955_20160209T015003_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T015010_20160209T015123_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T032508_20160209T032845_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T032908_20160209T033234_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T042240_20160209T042512_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T050304_20160209T050759_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T050807_20160209T051135_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T064302_20160209T064830_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T082223_20160209T082727_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T100439_20160209T100631_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T105841_20160209T110117_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T114335_20160209T114542_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T114635_20160209T115043_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T123738_20160209T123827_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T132131_20160209T132945_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T150022_20160209T150224_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T150304_20160209T150816_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T163945_20160209T164035_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T164229_20160209T164832_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T182137_20160209T182703_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T200145_20160209T200553_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T213557_20160209T214038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T214039_20160209T214044_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T214058_20160209T214438_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T231421_20160209T231937_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T231943_20160209T231949_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T231950_20160209T231956_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160209T232012_20160209T232148_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.

136

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: