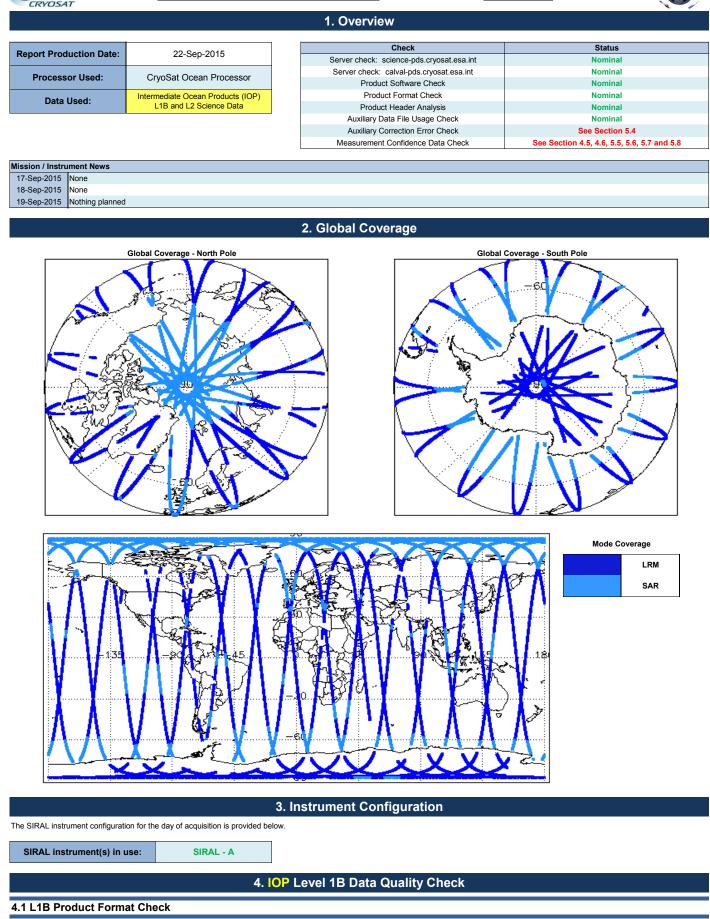


IDEAS+ Daily Report for IOP data:

<u>18/09/2015</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 product is checked for missing Data Set Descriptors with repsect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.			
lumber of products with errors: 0			
.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.			
lumber of products with errors: 0			
I.5 L1B Measurement Confidence Data Check			
	CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set.		
ryoSat L1B data includes a measurement confidence flag (field 12) for each	measurement record. The bit value of	of this flag indicates any problems when set.	
CryoSat L1B data includes a measurement confidence flag (field 12) for each lumber of products with errors: 1	measurement record. The bit value of	of this flag indicates any problems when set.	
,	measurement record. The bit value of Test Failed	of this flag indicates any problems when set. Description	

4.6 L1B Waveform Group Data Check

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

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

16

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20150918T021030_20150918T021330_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T065009_20150918T070736_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T073958_20150918T074137_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T081844_20150918T082419_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T082950_20150918T083347_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T091234_20150918T091303_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T102922_20150918T103658_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T120614_20150918T121315_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T121432_20150918T121513_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T122603_20150918T124527_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T134541_20150918T135353_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T154151_20150918T154309_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T154449_20150918T154521_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T170532_20150918T171128_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T184326_20150918T185009_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20150918T234322_20150918T234932_B001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

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.

18

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_220150917T235636_20150918T002317_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_IOP_220150918T020454_20150918T020925_B001	Fotal 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_220150918T053309_20150918T054032_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220150918T054032_20150918T055456_B001	Fauilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_IOP_220150918T060104_20150918T061634_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_220150918T064756_20150918T065009_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_220150918T065009_20150918T070736_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_220150918T071224_20150918T071935_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_220150918T072931_20150918T073957_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_220150918T081844_20150918T082419_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_220150918T082950_20150918T083347_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_220150918T085059_20150918T085815_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_220150918T091234_20150918T091303_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_220150918T122603_20150918T124527_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_220150918T151221_20150918T152346_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_220150918T180706_20150918T184326_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_220150918T184326_20150918T185009_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_220150918T202312_20150918T202454_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220150918T021030_20150918T021330_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

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. 31

1

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220150918T012618_20150918T013146_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T030519_20150918T030622_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T030622_20150918T030625_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T030625_20150918T031034_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T044051_20150918T044519_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T044533_20150918T044538_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T044538_20150918T044932_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T052911_20150918T053203_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T062424_20150918T062431_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T062431_20150918T062437_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T062452_20150918T062632_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T075826_20150918T080329_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T080329_20150918T080335_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T080335_20150918T080347_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T080353_20150918T080507_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T093849_20150918T094245_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T094252_20150918T094300_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T094307_20150918T094528_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T111635_20150918T112159_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_2_20150918T125636_20150918T130437_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T143610_20150918T144125_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T161743_20150918T162026_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T175738_20150918T175932_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T180144_20150918T185032_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T185127_20150918T185517_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T193614_20150918T193850_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T193911_20150918T193850_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T193911_20150918T194338_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T213401_20150918T212249_B001Ice Range Averaging StatusThe loe Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T22531_20150918T225507_B001Ice Range Averaging StatusThe	CS_OFFL_SIR_IOP_220150918T112205_20150918T112531_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_201509181143610_201509181162026_B001Ice Range Averaging Statusrecords.CS_OFFL_SIR_IOP_2_201509181161743_201509181162026_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181175738_201509181175932_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181180144_201509181180433_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181185127_201509181185517_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181193614_201509181193850_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181193911_201509181194338_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181193911_201509181194338_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181211401_201509181212249_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181225331_201509181225507_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201509181225617_201509181225507_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more re	CS_OFFL_SIR_IOP_220150918T125636_20150918T130437_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20150918T161743_20150918T162026_B001Ice Range Averaging Statusrecords.CS_OFFL_SIR_IOP_2_20150918T175738_20150918T175932_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T180144_20150918T180433_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T185127_20150918T185517_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T193614_20150918T193850_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T193911_20150918T193850_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T193911_20150918T194338_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T211401_20150918T212249_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T225617_20150918T2250040B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20150918T225617_20150918T2250040B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for	CS_OFFL_SIR_IOP_220150918T143610_20150918T144125_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_2015091811/5/38_2015091811/5932_6001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T185127_20150918T185517_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T185142_0150918T185517_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T193614_20150918T193850_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T193911_20150918T194338_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T213401_20150918T212249_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T211401_20150918T212249_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225617_20150918T225507_B001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225617_20	CS_OFFL_SIR_IOP_220150918T161743_20150918T162026_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20150918T185127_20150918T185517_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T193614_20150918T193850_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T193911_20150918T193850_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T193911_20150918T194338_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T211401_20150918T212249_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225617_20150918T233040_0_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220150918T175738_20150918T175932_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20150918T18512/20150918T18517_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T193614_20150918T193850_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T193911_20150918T194338_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T211401_20150918T212249_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225617_20150918T2250040_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225617_20150918T2250040_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220150918T180144_20150918T180433_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20150918T193014_20150918T193850_8001 Ice Range Averaging Status records. CS_OFFL_SIR_IOP_2_20150918T193911_20150918T194338_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T211401_20150918T212249_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225617_20150918T2250040_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220150918T185127_20150918T185517_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20150918T193911_20150918T194338_B001 Ice Range Averaging Status records. CS_OFFL_SIR_IOP_2_20150918T211401_20150918T212249_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225331_20150918T225507_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20150918T225617_20150918T2250040_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220150918T193614_20150918T193850_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_201509181225331_201509181222597_B001 Ice Range Averaging Status records. CS_OFFL_SIR_IOP_2_201509181225331_201509181225507_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_201509181225617_2015091812250040 B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220150918T193911_20150918T194338_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_201509181225331_201509181225307_B001 Ice Range Averaging Status records. The Ice Range Averaging Status The Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOP_220150918T211401_20150918T212249_B001	Ice Range Averaging Status	
US UFFL SIR IUP Z 201509181225617 201509181230040 B001 IICE Rande Averaging Status	CS_OFFL_SIR_IOP_220150918T225331_20150918T225507_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_IOP_220150918T225617_20150918T230040_B001	Ice Range Averaging Status	

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 22

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220150918T030519_20150918T030622_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T030625_20150918T031034_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T044051_20150918T044519_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T044538_20150918T044932_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T062431_20150918T062437_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T080353_20150918T080507_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T093849_20150918T094245_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T094252_20150918T094300_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T094307_20150918T094528_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T111635_20150918T112159_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T112205_20150918T112531_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T125636_20150918T130437_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T143610_20150918T144125_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T161743_20150918T162026_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T175738_20150918T175932_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T180144_20150918T180433_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T185127_20150918T185517_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T193614_20150918T193850_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T193911_20150918T194338_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T211401_20150918T212249_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T225331_20150918T225507_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220150918T225617_20150918T230040_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

155

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.

Number of products with errors: