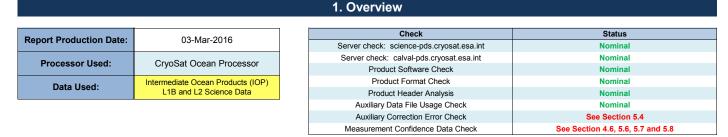


IDEAS+ Daily Report for IOP data:

01/03/2016





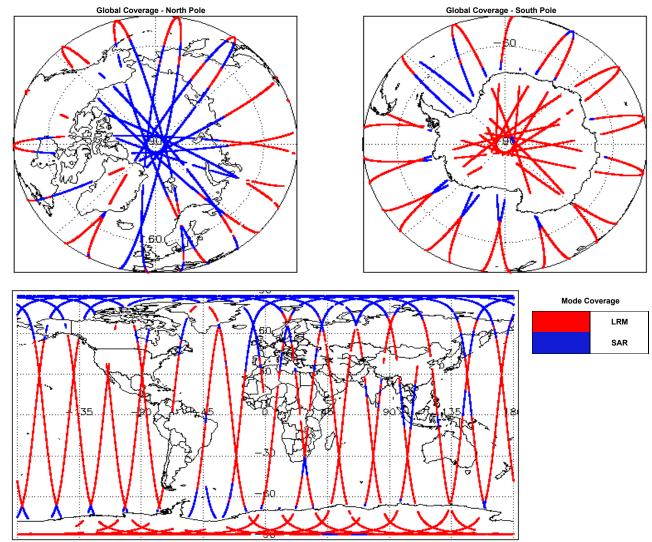
Mission / Instrument News

 29-Feb-2016
 L0 data missing on 29-Feb-2016 due to an unplanned ground segment anomaly (SARIn 12:35:12 - 13:42:48; All modes 13:44:18 - 15:20:00).

 01-Mar-2016
 None

02-Mar-2016 Nothing planned

2. Global Coverage



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:

SIRAL - A

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:

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.

	a determined becaling and -t t-	sheek the velidity of Auvilian. Data Files is serrest
ach product is checked for missing Data Set Descriptors with respect to a pr lumber of products with errors: 0	e-determined baseline and also to	check the validity of Auxiliary Data Flies is correct.
number of products with errors: 0		
I.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 60) for each measuren	nent record. The bit value of this fl	ag indicates any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each	measurement record. The bit valu	e of this flag indicates any problems when set.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measurem	nent record. The bit value of this fla	ag indicates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.		
.	s to be expected.	
	s to be expected.	
Number of products with errors: 16	Test Failed	Description
Number of products with errors: 16 Product		Description The tracking echo is missing for one or more records
Number of products with errors: 16 Product	Test Failed	•
	Test Failed Loss of Echo	The tracking echo is missing for one or more records
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20160301T000344_20160301T001230_B001 CS_OFFL_SIR_IOP_1B_20160301T021939_20160301T024850_B001	Test Failed Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product	Test Failed Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20160301T000344_20160301T001230_B001 CS_OFFL_SIR_IOP_1B_20160301T021939_20160301T024850_B001 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T045029_B001 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T0458029_B001	Test Failed Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20160301T000344_20160301T001230_B001 CS_OFFL_SIR_IOP_1B_20160301T021939_20160301T024850_B001 CS_OFFL_SIR_IOP_1B_20160301T04529_20160301T045029_B001 CS_OFFL_SIR_IOP_1B_20160301T0455719_20160301T045830_B001 CS_OFFL_SIR_IOP_1B_20160301T051615_20160301T045830_B001 CS_OFFL_SIR_IOP_1B_20160301T051615_20160301T051931_B001 CS_OFFL_SIR_IOP_1B_20160301T061237_20160301T062430_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product 16 CS_OFFL_SIR_IOP_1B_20160301T00344_20160301T001230_B001 0 CS_OFFL_SIR_IOP_1B_20160301T021939_20160301T024850_B001 0 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T045029_B001 0 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045830_B001 0 CS_OFFL_SIR_IOP_1B_20160301T051615_20160301T051931_B001 0 CS_OFFL_SIR_IOP_1B_20160301T061237_20160301T062430_B001 0 CS_OFFL_SIR_IOP_1B_20160301T111434_20160301T112112_B001 0 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T112921_B001 0	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product 16 CS_OFFL_SIR_IOP_1B_20160301T00344_20160301T001230_B001 0 CS_OFFL_SIR_IOP_1B_20160301T024939_20160301T024850_B001 0 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T045029_B001 0 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045830_B001 0 CS_OFFL_SIR_IOP_1B_20160301T051615_20160301T051931_B001 0 CS_OFFL_SIR_IOP_1B_20160301T061237_20160301T062430_B001 0 CS_OFFL_SIR_IOP_1B_20160301T111434_20160301T112112_B001 0 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T112921_B001 0 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T112921_B001 0	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product 16 CS_OFFL_SIR_IOP_1B_20160301T00344_20160301T001230_B001 0 CS_OFFL_SIR_IOP_1B_20160301T021939_20160301T024850_B001 0 CS_OFFL_SIR_IOP_1B_20160301T04529_20160301T045029_B001 0 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045830_B001 0 CS_OFFL_SIR_IOP_1B_20160301T051615_20160301T051931_B001 0 CS_OFFL_SIR_IOP_1B_20160301T101237_20160301T062430_B001 0 CS_OFFL_SIR_IOP_1B_20160301T111434_20160301T112112_B001 0 CS_OFFL_SIR_IOP_1B_20160301T114254_20160301T112921_B001 0 CS_OFFL_SIR_IOP_1B_20160301T14476_20160301T14928_B001 0 CS_OFFL_SIR_IOP_1B_20160301T143144_20160301T1434400_B001 0	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product	Test Failed Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20160301T000344_20160301T001230_B001 CS_OFFL_SIR_IOP_1B_20160301T024939_20160301T024850_B001 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T045029_B001 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045830_B001 CS_OFFL_SIR_IOP_1B_20160301T051615_20160301T051931_B001 CS_OFFL_SIR_IOP_1B_20160301T061237_20160301T062430_B001 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T112921_B001 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T112921_B001 CS_OFFL_SIR_IOP_1B_20160301T143144_20160301T143400_B001 CS_OFFL_SIR_IOP_1B_20160301T143144_20160301T144040_B001 CS_OFFL_SIR_IOP_1B_20160301T143549_20160301T144040_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20160301T000344_20160301T001230_B001 CS_OFFL_SIR_IOP_1B_20160301T024850_B001 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T045802_B001 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045830_B001 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045830_B001 CS_OFFL_SIR_IOP_1B_20160301T061237_20160301T062430_B001 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T112112_B001 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T112921_B001 CS_OFFL_SIR_IOP_1B_20160301T112454_20160301T143400_B001 CS_OFFL_SIR_IOP_1B_20160301T143144_20160301T143400_B001 CS_OFFL_SIR_IOP_1B_20160301T143444_20160301T143400_B001 CS_OFFL_SIR_IOP_1B_20160301T143549_20160301T1434040_B001 CS_OFFL_SIR_IOP_1B_20160301T174038_20160301T174120_B001 CS_OFFL_SIR_IOP_1B_20160301T174038_20160301T175240_B001 CS_OFFL_SIR_IOP_1B_20160301T175049_20160301T175240_B001	Test FailedLoss of EchoLoss 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
Number of products with errors: 16 Product CS_OFFL_SIR_IOP_1B_20160301T000344_20160301T001230_B001 CS_OFFL_SIR_IOP_1B_20160301T021939_20160301T024850_B001 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T045029_B001 CS_OFFL_SIR_IOP_1B_20160301T044529_20160301T045830_B001 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045830_B001 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045930_B001 CS_OFFL_SIR_IOP_1B_20160301T045719_20160301T045930_B001	Test Failed Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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

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.

23

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_220160301T000344_20160301T001230_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_220160301T004035_20160301T011441_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_220160301T011441_20160301T011639_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_220160301T021939_20160301T024850_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_220160301T045830_20160301T050637_B001	Lotal Geocentric Ocean Lide (GOL)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_IOP_220160301T062856_20160301T063200_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_220160301T081650_20160301T083943_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_220160301T091407_20160301T091537_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_220160301T092926_20160301T093217_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_220160301T093450_20160301T093612_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_220160301T100631_20160301T102030_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_220160301T112454_20160301T112921_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_220160301T123152_20160301T124007_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_220160301T125400_20160301T130028_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_220160301T130844_20160301T134236_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_220160301T141716_20160301T141928_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_220160301T141928_20160301T142101_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_220160301T143144_20160301T143400_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_220160301T153431_20160301T160415_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_220160301T161241_20160301T162237_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_220160301T175049_20160301T175240_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_220160301T180536_20160301T180603_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_220160301T194226_20160301T194405_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. 0

Number of products with errors:

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. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160301T002919_20160301T003414_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T003455_20160301T003603_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T021001_20160301T021330_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T021338_20160301T021347_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T021353_20160301T021720_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T034744_20160301T035244_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T035251_20160301T035619_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T052742_20160301T053316_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T070702_20160301T071211_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T084915_20160301T085114_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T102823_20160301T103024_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T103129_20160301T103526_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T112221_20160301T112328_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T120627_20160301T121428_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20160301T134503_20160301T134711_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T134739_20160301T135313_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220160301T143421_20160301T143518_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T152424_20160301T152530_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T152711_20160301T153151_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T153232_20160301T153308_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T170621_20160301T171153_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T184524_20160301T185036_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T202125_20160301T202523_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T202529_20160301T202536_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T202537_20160301T202540_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T202541_20160301T202937_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T210927_20160301T211210_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T215903_20160301T220421_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T220434_20160301T220440_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T220440_20160301T220638_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. 24

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160301T002919_20160301T003414_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T003455_20160301T003603_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T021001_20160301T021330_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T021353_20160301T021720_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T034744_20160301T035244_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T035251_20160301T035619_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T052742_20160301T053316_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T070702_20160301T071211_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T084915_20160301T085114_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T102823_20160301T103024_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T103129_20160301T103526_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T112221_20160301T112328_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T120627_20160301T121428_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T134503_20160301T134711_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T134739_20160301T135313_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T143421_20160301T143518_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T152424_20160301T152530_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T152711_20160301T153151_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T153232_20160301T153308_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T184524_20160301T185036_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T202125_20160301T202523_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T202537_20160301T202540_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T202541_20160301T202937_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160301T210927_20160301T211210_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. Number of products with errors: 119