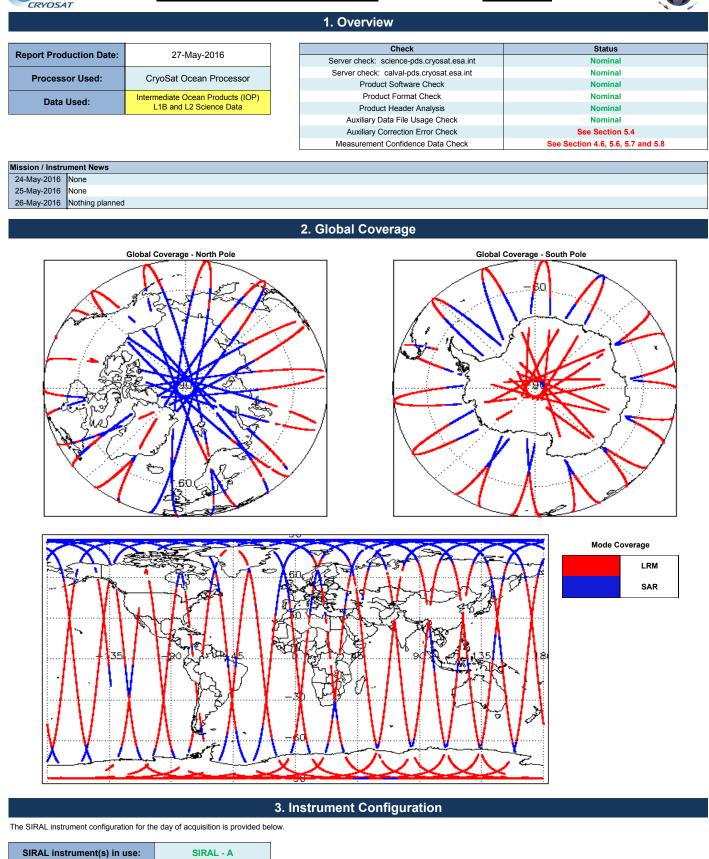


IDEAS+ Daily Report for IOP data:

25/05/2016





4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

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 respect to a p	re-determined baseline and also to	o check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 60) for each measurement record. The bit value of this flag indicates any problems when set.		
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each	maggurament report. The hit val	ue of this flog indicates any problems when set
Number of products with errors: 0	measurement record. The Dit Val	ac of this hay maleates any problems when set.
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measuren	nent record. The bit value of this fl	lag indicates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this i	s to be expected.	
Number of products with errors: 19		
Number of products with errors: 19	·	
	Test Failed	Description
Product		Description The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001	Test Failed	•
Products with errors: 19 Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_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
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001	Test Failed Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001	Test Failed Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T084120_20160525T084752_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T084120_20160525T084752_B001 CS_OFFL_SIR_IOP_1B_20160525T115709_20160525T115909_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T084120_20160525T084752_B001 CS_OFFL_SIR_IOP_1B_20160525T115709_20160525T115909_B001 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_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
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T084120_20160525T084752_B001 CS_OFFL_SIR_IOP_1B_20160525T115709_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T133812_20160525T134007_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
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T0784120_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T15709_20160525T115909_B001 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T133812_20160525T134007_B001 CS_OFFL_SIR_IOP_1B_20160525T134007_20160525T134854_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T07812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T084120_20160525T084752_B001 CS_OFFL_SIR_IOP_1B_20160525T15094202 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T133812_20160525T134007_B001 CS_OFFL_SIR_IOP_1B_20160525T134007_20160525T134854_B001 CS_OFFL_SIR_IOP_1B_20160525T134007_20160525T134854_B001 CS_OFFL_SIR_IOP_1B_20160525T130407_20160525T150830_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T0784120_20160525T084752_B001 CS_OFFL_SIR_IOP_1B_20160525T115709_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T134007_20160525T134854_B001 CS_OFFL_SIR_IOP_1B_20160525T134007_20160525T130830_B001 CS_OFFL_SIR_IOP_1B_20160525T150758_20160525T150830_B001 CS_OFFL_SIR_IOP_1B_20160525T1510712_0160525T151021_B001	Test Failed Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T084120_20160525T084752_B001 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T133812_20160525T134007_B001 CS_OFFL_SIR_IOP_1B_20160525T150758_20160525T150830_B001 CS_OFFL_SIR_IOP_1B_20160525T15107407_20160525T150830_B001 CS_OFFL_SIR_IOP_1B_20160525T150758_20160525T150330_B001 CS_OFFL_SIR_IOP_1B_20160525T150758_20160525T151321_B001 CS_OFFL_SIR_IOP_1B_20160525T183418_20160525T183738_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
Product CS_OFFL_SIR_IOP_1B_20160525T002454_20160525T003227_B001 CS_OFFL_SIR_IOP_1B_20160525T010339_20160525T010656_B001 CS_OFFL_SIR_IOP_1B_20160525T034214_20160525T035340_B001 CS_OFFL_SIR_IOP_1B_20160525T064208_20160525T065132_B001 CS_OFFL_SIR_IOP_1B_20160525T071812_20160525T073036_B001 CS_OFFL_SIR_IOP_1B_20160525T084120_20160525T084752_B001 CS_OFFL_SIR_IOP_1B_20160525T115709_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T132759_20160525T132841_B001 CS_OFFL_SIR_IOP_1B_20160525T133812_20160525T134007_B001 CS_OFFL_SIR_IOP_1B_20160525T134007_20160525T134854_B001 CS_OFFL_SIR_IOP_1B_20160525T150758_20160525T150830_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

5. IOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

5.1 L2 Product Format Check

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

5.2 L2 Product Header Analysis

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

Loss of Echo

Loss of Echo

Loss of Echo

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Wind Model File Usage: This file is currently not included in all L2 products.

CS_OFFL_SIR_IOP_1B_20160525T201835_20160525T202443_B001

CS_OFFL_SIR_IOP_1B_20160525T215658_20160525T220549_B001

CS_OFFL_SIR_IOP_1B_20160525T233350_20160525T234128_B001

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

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

Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected.

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Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160524T235818_20160525T000354_B001	IGIM Ionospheric Correction	There is an error with the GIM lonospheric correction for one or more records
CS_OFFL_SIR_IOP_220160525T003253_20160525T003749_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_220160525T004143_20160525T004340_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_220160525T004551_20160525T005402_B001		There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_IOP_220160525T021619_20160525T021924_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_220160525T040415_20160525T042708_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_220160525T050740_20160525T051541_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_220160525T052211_20160525T052335_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_220160525T084120_20160525T084752_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_220160525T094408_20160525T100823_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_220160525T115958_20160525T121001_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_220160525T133353_20160525T133704_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_220160525T133812_20160525T134007_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_220160525T135320_20160525T142637_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_220160525T151321_20160525T151742_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_220160525T152948_20160525T153125_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_220160525T172708_20160525T174431_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_220160525T181523_20160525T181736_B001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220160525T185701_20160525T190727_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_220160525T194802_20160525T194812_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_IOP_220160525T220549_20160525T220655_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_220160525T234438_20160525T234605_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. 32

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160525T011506_20160525T012039_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T021220_20160525T021222_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T025427_20160525T025935_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T043640_20160525T043838_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T061547_20160525T061748_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T061853_20160525T062249_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T070945_20160525T071051_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T075352_20160525T080151_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T093227_20160525T093435_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T093503_20160525T094037_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T102144_20160525T102240_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T102312_20160525T102803_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T111148_20160525T111254_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T111436_20160525T111914_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T111957_20160525T112030_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T125345_20160525T125916_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220160525T143248_20160525T143800_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T160852_20160525T161247_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T161301_20160525T161304_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T161305_20160525T161701_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T165650_20160525T165932_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T175146_20160525T175151_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T175152_20160525T175158_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T175158_20160525T175204_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T175204_20160525T175402_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T192553_20160525T193056_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T193057_20160525T193103_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T193120_20160525T193235_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T210604_20160525T211012_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T211034_20160525T211226_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T224402_20160525T224926_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T224933_20160525T225257_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 27

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160525T011506_20160525T012039_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T021220_20160525T021222_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T025427_20160525T025935_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T043640_20160525T043838_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T061547_20160525T061748_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T061853_20160525T062249_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T070945_20160525T071051_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T075352_20160525T080151_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T093227_20160525T093435_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T093503_20160525T094037_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T102144_20160525T102240_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T102312_20160525T102803_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T111148_20160525T111254_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T111436_20160525T111914_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T111957_20160525T112030_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T125345_20160525T125916_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T143248_20160525T143800_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T160852_20160525T161247_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T161305_20160525T161701_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T175158_20160525T175204_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T175204_20160525T175402_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T192553_20160525T193056_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T193120_20160525T193235_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T210604_20160525T211012_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T211034_20160525T211226_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T224402_20160525T224926_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160525T224933_20160525T225257_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.

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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.