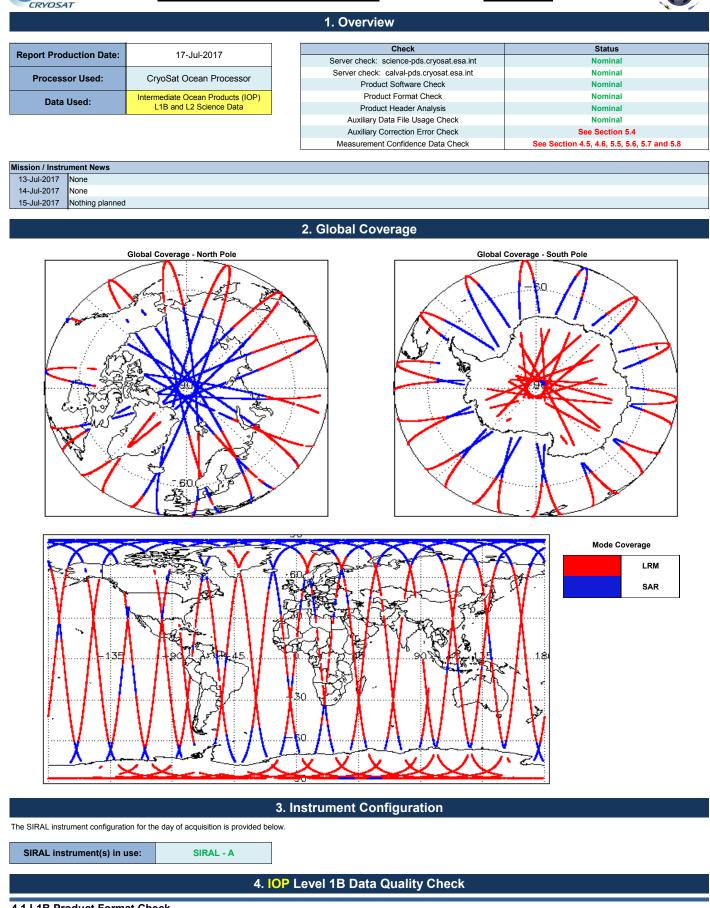


## IDEAS+ Daily Report for IOP data:

# <u>14/07/2017</u>





### 4.1 L1B Product Format Check

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

### Number of products with errors:

### 4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.				
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag (field 60) for each measurement	nt 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 me	easurement record. The bit value of this flag	a indicates any problems when set.		
		, , , ,		
Number of products with errors: 2				
Number of products with errors: 2 Product	Test Failed	Description		
	Test Failed Power scaling error			

#### 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.

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Number of	products with errors:
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Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20170714T010543_20170714T011113_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170714T084312_20170714T085957_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170714T155448_20170714T155615_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170714T172454_20170714T172835_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170714T201442_20170714T202041_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170714T210450_20170714T212552_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170714T221436_20170714T222957_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: 0

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.

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170713T235532_20170714T001031_B001	Usily lonospheric Correction	There is an error with the GIM lonospheric correction for one or more records
CS_OFFL_SIR_IOP_220170714T011117_20170714T011404_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170714T011404_20170714T011702_B001		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_220170714T043949_20170714T044046_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170714T055958_20170714T060857_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170714T061507_20170714T061654_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170714T094843_20170714T095057_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_220170714T103949_20170714T105401_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_IOP_220170714T105954_20170714T110041_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_220170714T111256_20170714T112211_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_220170714T125015_20170714T125227_B001		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_2_20170714T134306_20170714T140612_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_220170714T152019_20170714T154315_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_IOP_2_20170714T154800_20170714T155004_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_220170714T170040_20170714T170237_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_IOP_220170714T173043_20170714T173213_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_220170714T210332_20170714T210450_B001	Fotal Geocentric Ocean Tide (FES), Non-	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_220170714T210450_20170714T212552_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_220170714T235536_20170714T235813_B001	IEquilibrium Long Period Ocean Lide	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: 2

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170714T111256_20170714T112211_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220170714T141033_20170714T141700_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. 34

Number of products with errors:

CS_OFFL_SIR_IOP_2_20170714T001411_20170714T001852_B001       toc Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T00189_20170714T001807_B001       toc Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T001914_0170714T000238_B001       toe Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T015752_B001       toe Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T015752_B0170714T015752_B001       toe Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T015312_0170714T020137_B001       toe Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T015312_0170714T03376_B001       toe Range Averaging Status       The Coc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T015121_20170714T015732_B001       toe Range Averaging Status       The Coc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T01532_B011       toe Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more exorts.         CS_OFFL_SIR_IOP_2_20170714T018324_20170714T1018358_B001       toe Range A	Product	Test Failed	Description
CS_OFF_SIR_OP_2_0017014100164_20170714100038       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_00170714100164_201707141002038_0001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_001707141015532_201707141015552_8001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_001707141015552_201707141015552_8001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_001707141015512_201707141020137_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_0170714103512_01707141033710_201707141033706_8001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_01707141033710_20170714103306_8001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_0170714106314_20170714108336_8001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_0170714108334_20170714108336_8001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more ecods.         CS_OFF_SIR_IOP_2_01707141108320_201707141108358_8001	CS_OFFL_SIR_IOP_220170714T001411_20170714T001852_B001	Ice Range Averaging Status	0 0 0
CS_OFFL_SIR_JOP_2_201707141005762_001       Ice Range Averaging Status       records.         CS_OFFL_SIR_JOP_2_201707141015752_001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_201707141015762_01707141015766_001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_201707141033710_201707141033706_001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_201707141033710_201707141033706_001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_201707141033710_201707141034041_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_201707141055131_20170714105631_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_20170714105834_20170714105535_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_20170714103834_20170714108354_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_JOP_2_201707141108376_B001       Ice Range Averaging Status Flag has been set for one or more records.       The	CS_OFFL_SIR_IOP_220170714T001859_20170714T001907_B001	Ice Range Averaging Status	0 0 0
CS_OFFL_SIR_IOP_2_20170714T015752_5001       tec Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T015766_20170714T0155866_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T015812_20170714T015806_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T033224_20170714T033705_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T033710_20170714T034041_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T065121_20170714T065132_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T083344_20170714T065631_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T083344_20170714T083566_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T1013245_20170714T108356_B001       tec Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101527_20170714T101527_20170714T101527_20170714T101527_20170714T101527_20170714T101527_	CS_OFFL_SIR_IOP_2_20170714T001914_20170714T002038_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714101535_201707141015805_8001       Ide Kange Averaging Status       records.         CS_OFFL_SIR_IOP_2_201707141015812_2017071410033705_8001       Ide Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141033710_201707141033705_8001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141033710_2017071410351732_8001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141051211_20170714105533_8001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141083344_201707141065633_8001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714108390_201707141063965_8001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141108390_20170714110450_8001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714110234_20170714110450_8001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714110234_20170714111585_8001       Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170714T015353_20170714T015752_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714103312_201707141033705_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714103370_201707141034041_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714105121_201707141051732_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141065140_201707141065631_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141065631_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714108394_201707141083945_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141101234_201707141101450_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141101234_201707141101450_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141101234_201707141101450_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201707141101234_201707141101450_B001<	CS_OFFL_SIR_IOP_220170714T015756_20170714T015806_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T03324_20170714T03404_B001       ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T033710_20170714T034041_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T051211_20170714T056531_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T0656140_20170714T065631_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T083944_20170714T083566_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T1083945_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101450_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101450_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T103452_B001       ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T132390_20170714T13323_B001       ice Range Averaging Status Flag	CS_OFFL_SIR_IOP_220170714T015812_20170714T020137_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_201707141033710_20170714103444_BUIT       ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T051211_20170714T051732_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T065140_20170714T065631_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T083344_20170714T083536_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T0183945_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101450_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T1101527_20170714T110455_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T115023_20170714T115852_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T115023_20170714T115852_B001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T115023_20170714T115852_B001       ice Range Averaging Status       The	CS_OFFL_SIR_IOP_220170714T033224_20170714T033705_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_201707/4105141_201707/41051732_8001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T065140_20170714T065631_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T083344_20170714T083536_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T083945_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101450_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101527_20170714T101450_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T1101527_20170714T101457_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T13023_20170714T133123_B001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T13226_20170714T133265_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T13216_20170714T133265_B001       Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170714T033710_20170714T034041_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_201707141065140_20170714106533_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T083344_20170714T083536_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T083900_20170714T083945_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101450_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101527_20170714T101450_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101527_20170714T115452_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T132930_20170714T13123_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T13216_20170714T133123_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T13216_20170714T133059_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150358_20170714T150918_B001       Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170714T051211_20170714T051732_B001	Ice Range Averaging Status	0 0 0 0
CS_OFFL_SIR_IOP_2_20170714108334_20170714108335_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T083900_20170714T083945_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101450_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101527_20170714T101947_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T115223_20170714T115852_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T132930_20170714T133123_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133123_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133659_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150588_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150542_20170714T165001_B001       Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170714T065140_20170714T065631_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714108390_201707141083945_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101450_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T101527_20170714T101947_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T115023_20170714T115852_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T132930_20170714T133123_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133659_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170714T083344_20170714T083536_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T101234_20170714T101430_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T115023_20170714T115852_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T115023_20170714T115852_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T132930_20170714T133123_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133659_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T15135_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T15135_20170714T151730_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170714T083900_20170714T083945_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T1101527_20170714T1101947_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T1132930_20170714T113852_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133123_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133659_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T15135_20170714T150918_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T15135_20170714T150918_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150931_20170714T165001_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T182931_20170714T183044_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_	CS_OFFL_SIR_IOP_220170714T101234_20170714T101450_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T13023_20170714T133123_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133123_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133659_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T15135_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T185042_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T1830457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183045_B001       Ice Range Averaging Status       The Ice Range Averagi	CS_OFFL_SIR_IOP_220170714T101527_20170714T101947_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T132930_20170714T133123_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T133216_20170714T133659_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T15135_20170714T151730_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T182931_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status	CS_OFFL_SIR_IOP_220170714T115023_20170714T115852_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T153216_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T151135_20170714T150918_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T151135_20170714T151730_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T185042_20170714T185044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T1830436_20170714T200943_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170714T132930_20170714T133123_B001	Ice Range Averaging Status	0 0 0
CS_OFFL_SIR_IOP_2_20170714T150858_20170714T150918_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOP_2_20170714T151135_20170714T151730_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T182931_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183043_57_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T200436_20170714T200943_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170714T133216_20170714T133659_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T165042_20170714T165601_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170714T150858_20170714T150918_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T183042_20170714T183044_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170714T151135_20170714T151730_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220170714T165042_20170714T165601_B001	Ice Range Averaging Status	
CS_OFFL_SIR_IOP_2_201707141783052_201707141783457_B001 Ice Range Averaging Status records. CS_OFFL_SIR_IOP_2_2017071417200436_2017071417200943_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOP_220170714T182931_20170714T183044_B001	Ice Range Averaging Status	0 0 0
	CS_OFFL_SIR_IOP_220170714T183052_20170714T183457_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_IOP_220170714T200436_20170714T200943_B001	Ice Range Averaging Status	

CS_OFFL_SIR_IOP_220170714T200948_20170714T200955_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T200955_20170714T201002_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T201002_20170714T201301_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T205309_20170714T205635_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T214847_20170714T214853_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T214854_20170714T214859_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T214859_20170714T214911_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T214919_20170714T215044_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T232251_20170714T232751_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T232758_20170714T232810_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T232832_20170714T232935_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. 26

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170714T001411_20170714T001852_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T001914_20170714T002038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T015353_20170714T015752_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T015812_20170714T020137_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170714T033224_20170714T033705_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T033710_20170714T034041_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T051211_20170714T051732_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T065140_20170714T065631_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T083344_20170714T083536_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T083900_20170714T083945_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T101234_20170714T101450_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T101527_20170714T101947_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T115023_20170714T115852_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T132930_20170714T133123_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T133216_20170714T133659_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T150858_20170714T150918_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T151135_20170714T151730_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T165042_20170714T165601_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T182931_20170714T183044_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170714T183052_20170714T183457_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T200436_20170714T200943_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T201002_20170714T201301_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T205309_20170714T205635_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T214847_20170714T214853_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T214919_20170714T215044_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170714T232832_20170714T232935_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. 150 Number of products with errors:

### 6. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type I	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_IOP_1B	241	241	241	0	0
SIR_IOP_2	238	238	238	0	0
6.1 QCC Errors					
Number of QCC reports with errors:	0				
6.2 QCC Warnings					
Number of QCC reports with warnings	0				
6.3 Missing QCC Reports					
Number of products with missing QCC re	eports: 0				
	·				