

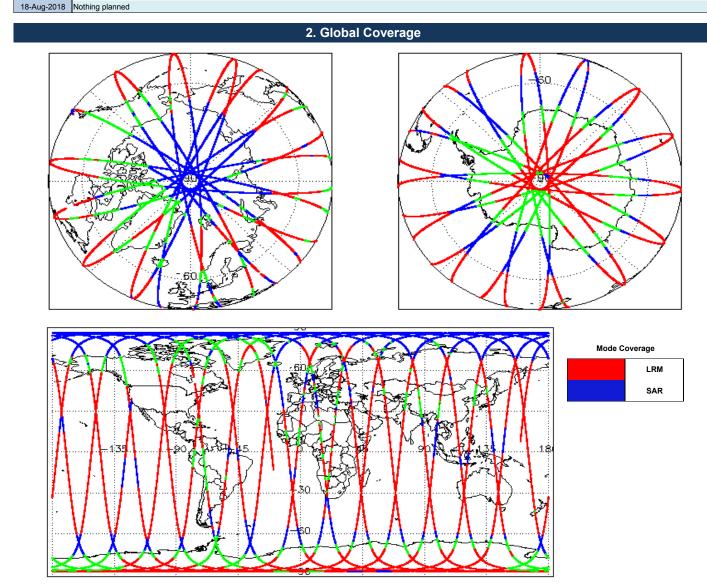
IDEAS+ Daily Report for IOP data:

<u>17/08/2018</u>

20 Aug 2018	Check	L1 & L2	P2P
20-Aug-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
On a Ont One on Decement	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
CryoSal Ocean Processor	Product Software Check	Nominal	Nominal
Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
L1B, L2 & P2P Science Data	Product Header Analysis	See Section 5.2	Nominal
	Auxiliary Data File Usage Check	Nominal	Nominal
	Auxiliary Correction Error Check	Nominal	Nominal
	Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
	Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
	Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
		20-Aug-2018 Server check: science-pds.cryosat.esa.int CryoSat Ocean Processor Server check: calval-pds.cryosat.esa.int Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data Product Software Check Product Feader Analysis Auxiliary Data File Usage Check Auxiliary Correction Error Check Measurement Confidence Data Check Range, SWH & Backscatter Measurement Check	20-Aug-2018 Server check: science-pds.cryosat.esa.int Nominal CryoSat Ocean Processor Server check: calval-pds.cryosat.esa.int Nominal Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data Product Software Check Nominal Product Format Check Nominal Nominal Auxiliary Data File Usage Check Nominal Measurement Confidence Data Check See Section 4.5, 4.6 and 5.5 Range, SWH & Backscatter Measurement Check See Section 5.6, 5.7

Overview

Mission / Instrument News 16-Aug-2018 None 17-Aug-2018 None



3. Instrument Configuration

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

SIRAL - A

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SIRAL instrument(s) in use:

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.
Number of products with errors:
0

Each product is checked for missing Data S	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
1.4 L1B Auxiliary Correction	Error Check
4.4 L1B Auxiliary Correction	Error Check or flag for each measurement record. The bit value of this flag indicates any problems when set.
,	

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

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Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180817T032831_20180817T033544_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180817T170704_20180817T174308_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180817T200907_20180817T201044_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
		'

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag 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.

Number of products with errors:

Test Failed	Description
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
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Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo Loss of Echo

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: 1				
Product	Test Failed			
CS_OFFL_SIR_IOPR_2_20180817T041023_20180817T041029_C001	Percentage of processing errors detected greater than minimum acceptable threshold.			
5.3 L2 Auxiliary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-determ	ined baseline and also to check the validity of Auxiliary Data Files is correct.			
Number of products with errors: 0				
5.4 L2 Auxiliary Correction Error Check				
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).				
Number of products with errors: 0				

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180817T032831_20180817T033544_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180817T170704_20180817T174308_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180817T200907_20180817T201044_C001	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 and Ice 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. 86

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180816T234810_20180817T001332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T001356_20180817T002124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T003356_20180817T004821_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T005302_20180817T005454_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T005458_20180817T010958_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T011226_20180817T011745_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T012859_20180817T014119_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T014321_20180817T020045_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T022252_20180817T023223_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T023425_20180817T024858_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T025151_20180817T025646_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T030601_20180817T030718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T032246_20180817T032817_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T032831_20180817T033544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T033706_20180817T033942_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T041228_20180817T042751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T043135_20180817T043613_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T043619_20180817T043628_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T043634_20180817T043803_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T044342_20180817T050606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T050609_20180817T051704_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T054207_20180817T060650_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T061009_20180817T061513_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T061532_20180817T061857_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T062236_20180817T063326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T063900_20180817T064854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T064949_20180817T065349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T071732_20180817T074610_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T074948_20180817T075427_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T080300_20180817T083545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T084720_20180817T085058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T091957_20180817T092239_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T092931_20180817T093453_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T094157_20180817T100259_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T100545_20180817T101714_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T102652_20180817T103106_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T104705_20180817T105154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T105341_20180817T110349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T112108_20180817T112601_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T112610_20180817T115720_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T121139_20180817T124130_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180817T125104_20180817T125257_C001 CS OFFL SIR IOPM 2 20180817T130038 20180817T131558 C001 CS_OFFL_SIR_IOPM_2_20180817T131602_20180817T131718_C001 CS_OFFL_SIR_IOPM_2_20180817T132158_20180817T132903_C001 CS OFFL SIR IOPM 2 20180817T135027 20180817T140601 C001 CS_OFFL_SIR_IOPM_2_20180817T141220_20180817T142230_C001 CS OFFL SIR IOPM 2 20180817T142952 20180817T143211 C001 CS OFFL SIR IOPM 2 20180817T143246 20180817T143707 C001 CS_OFFL_SIR_IOPM_2_20180817T143947_20180817T145347_C001 CS_OFFL_SIR_IOPM_2_20180817T145526_20180817T151103_C001 CS OFFL SIR IOPM 2 20180817T152905 20180817T153056 C001 CS_OFFL_SIR_IOPM_2_20180817T153218_20180817T153928_C001 CS_OFFL_SIR_IOPM_2_20180817T154050_20180817T154403_C001 CS_OFFL_SIR_IOPM_2_20180817T154903_20180817T160336_C001 CS_OFFL_SIR_IOPM_2_20180817T160740_20180817T161615_C001 CS OFFL SIR IOPM 2 20180817T161943 20180817T164114 C001 CS_OFFL_SIR_IOPM_2_20180817T170704_20180817T174308_C001 CS_OFFL_SIR_IOPM_2_20180817T174939_20180817T175416_C001 CS_OFFL_SIR_IOPM_2_20180817T175914_20180817T182646_C001 CS_OFFL_SIR_IOPM_2_20180817T183111_20180817T183421_C001 CS_OFFL_SIR_IOPM_2_20180817T183519_20180817T183631_C001 CS OFFL SIR IOPM 2 20180817T185601 20180817T190556 C001 CS_OFFL_SIR_IOPM_2_20180817T191134_20180817T192121_C001 CS OFFL SIR IOPM 2 20180817T192856 20180817T193450 C001 CS OFFL SIR IOPM 2 20180817T193803 20180817T195605 C001 CS OFFL SIR IOPM 2 20180817T195608 20180817T200412 C001 CS_OFFL_SIR_IOPM_2_20180817T201341_20180817T201520_C001 CS_OFFL_SIR_IOPM_2_20180817T202724_20180817T210040_C001 CS_OFFL_SIR_IOPM_2_20180817T210803_20180817T211321_C001 CS OFFL SIR IOPM 2 20180817T211959 20180817T212144 C001 CS_OFFL_SIR_IOPM_2_20180817T215053_20180817T215505_C001 CS_OFFL_SIR_IOPM_2_20180817T220326_20180817T220354_C001 CS_OFFL_SIR_IOPM_2_20180817T220419_20180817T220445_C001 CS_OFFL_SIR_IOPM_2_20180817T220517_20180817T221604_C001 CS_OFFL_SIR_IOPM_2_20180817T221850_20180817T224003_C001 CS OFFL SIR IOPM 2 20180817T224648 20180817T224805 C001 CS_OFFL_SIR_IOPM_2_20180817T224812_20180817T225218_C001 CS OFFL SIR IOPM 2 20180817T225731 20180817T230723 C001 CS OFFL SIR IOPM 2 20180817T230910 20180817T231523 C001 CS_OFFL_SIR_IOPM_2_20180817T231701_20180817T232144_C001 CS_OFFL_SIR_IOPM_2_20180817T234347_20180818T001847_C001 CS OFFL SIR IOPN 2 20180817T025006 20180817T025151 C001 CS_OFFL_SIR_IOPN_2_20180817T103106_20180817T103217_C001 CS OFFL SIR IOPR 2 20180817T175634 20180817T175914 C001 CS_OFFL_SIR_IOPR_2_20180817T221604_20180817T221850_C001

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5.7 L2 SWH and Backscatter Measurement Check

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

Ocean Range Averaging Status

Ocean Range Averaging Status

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.

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Product CS OFFL SIR IOPM 2 20180816T234810 20180817T001332 C001 CS_OFFL_SIR_IOPM_2_20180817T001356_20180817T002124_C001 CS OFFL SIR IOPM 2 20180817T003356 20180817T004821 C001 CS_OFFL_SIR_IOPM_2_20180817T005302_20180817T005454_C001 CS OFFL SIR IOPM 2 20180817T005458 20180817T010958 C001 CS OFFL SIR IOPM 2 20180817T011226 20180817T011745 C001 CS_OFFL_SIR_IOPM_2_20180817T012859_20180817T014119_C001 CS_OFFL_SIR_IOPM_2_20180817T014321_20180817T020045_C001 CS OFFL SIR IOPM 2 20180817T022252 20180817T023223 C001 CS_OFFL_SIR_IOPM_2_20180817T023425_20180817T024858_C001 CS_OFFL_SIR_IOPM_2_20180817T025151_20180817T025646_C001 CS OFFL SIR IOPM 2 20180817T032246 20180817T032817 C001 CS_OFFL_SIR_IOPM_2_20180817T032831_20180817T033544_C001 CS OFFL SIR IOPM 2 20180817T033706 20180817T033942 C001 CS OFFL SIR IOPM 2 20180817T041228 20180817T042751 C001 CS OFFL SIR IOPM 2 20180817T043135 20180817T043613 C001 CS OFFL SIR IOPM 2 20180817T043619 20180817T043628 C001 CS_OFFL_SIR_IOPM_2_20180817T043634_20180817T043803_C001 CS OFFL SIR IOPM 2 20180817T044342 20180817T050606 C001 CS_OFFL_SIR_IOPM_2_20180817T050609_20180817T051704_C001 CS_OFFL_SIR_IOPM_2_20180817T054207_20180817T060650_C001 CS_OFFL_SIR_IOPM_2_20180817T061009_20180817T061513_C001 CS OFFL SIR IOPM 2 20180817T061532 20180817T061857 C001 CS_OFFL_SIR_IOPM_2_20180817T062236_20180817T063326_C001 CS_OFFL_SIR_IOPM_2_20180817T063900_20180817T064854_C001 CS OFFL SIR IOPM 2 20180817T064949 20180817T065349 C001 CS_OFFL_SIR_IOPM_2_20180817T071732_20180817T074610_C001 CS_OFFL_SIR_IOPM_2_20180817T074948_20180817T075427_C001 CS OFFL SIR IOPM 2 20180817T080300 20180817T083545 C001 CS_OFFL_SIR_IOPM_2_20180817T084720_20180817T085058_C001 CS OFFL SIR IOPM 2 20180817T091957 20180817T092239 C001 CS OFFL SIR IOPM 2 20180817T092931 20180817T093453 C001 CS_OFFL_SIR_IOPM_2_20180817T094157_20180817T100259_C001 CS_OFFL_SIR_IOPM_2_20180817T100545_20180817T101714_C001 CS OFFL SIR IOPM 2 20180817T102652 20180817T103106 C001 CS_OFFL_SIR_IOPM_2_20180817T104705_20180817T105154_C001 CS OFFL SIR IOPM 2 20180817T105341 20180817T110349 C001 CS_OFFL_SIR_IOPM_2_20180817T112108_20180817T112601_C001 CS_OFFL_SIR_IOPM_2_20180817T112610_20180817T115720_C001 CS OFFL SIR IOPM 2 20180817T121139 20180817T124130 C001 CS_OFFL_SIR_IOPM_2_20180817T125104_20180817T125257_C001 CS OFFL SIR IOPM 2 20180817T130038 20180817T131558 C001 CS OFFL SIR IOPM 2 20180817T131602 20180817T131718 C001 CS_OFFL_SIR_IOPM_2_20180817T132158_20180817T132903_C001 CS_OFFL_SIR_IOPM_2_20180817T135027_20180817T140601_C001 CS_OFFL_SIR_IOPM_2_20180817T141220_20180817T142230_C001 CS_OFFL_SIR_IOPM_2_20180817T142952_20180817T143211_C001 CS OFFL SIR IOPM 2 20180817T143246 20180817T143707 C001 CS_OFFL_SIR_IOPM_2_20180817T143947_20180817T145347_C001 CS_OFFL_SIR_IOPM_2_20180817T145526_20180817T151103_C001 Test Failed SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status

Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records.

Description

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

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

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0	-determined baseline and also to check the	e validity of Auxiliary Data Files is correct.
6.3 P2P Auxiliary Data File Usage Check		
For all products, a series of pre-defined checks are performed on the MPH and Number of products with errors: 0	SPH in order to identify any inconsistencie	es and/or errors raised by the ground-segment processing chain.
6.2 P2P Product Header Analysis		
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 0	nsure it consists of both an XML header file	e (.HDR) and a NetCDF product file (.nc).
6.1 P2P Product Format Check		
	2 Pole-to-Pole Data Qual	Пуспеск
	Polo to Polo Data Ovali	ity Chook
Ocean Retracking Quality Flag: This flag is currently set for products over lan Number of products with errors: 63	d and sea ice, but this is to be expected. T	The number of products with this error flag set is given below.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meas	C C	
5.8 L2 Ocean Retracking Quality Check		
CS_OFFL_SIR_IOPR_2_20180817T221604_20180817T221850_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180817T175634_20180817T175914_C001	SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20180817T103106_20180817T103217_C001	SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
CS_OFFL_SIR_IOPN_2_20180817T025006_20180817T025151_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180817T234347_20180818T001847_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T230910_20180817T231523_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T225731_20180817T230723_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T224812_20180817T225218_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T224648_20180817T224805_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T221850_20180817T224003_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T220517_20180817T221604_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T220419_20180817T220445_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T220326_20180817T220354_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T215053_20180817T215505_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T210803_20180817T211321_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T202724_20180817T210040_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T201341_20180817T201520_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T195608_20180817T200412_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T193803_20180817T195605_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T192856_20180817T193450_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T191134_20180817T192121_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T185601_20180817T190556_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T183519_20180817T183631_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T183111_20180817T183421_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T175914_20180817T182646_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T174939_20180817T175416_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T170704_20180817T174308_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T161943_20180817T164114_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T160740_20180817T161615_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T154903_20180817T160336_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T154050_20180817T154403_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180817T153218_20180817T153928_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180817T025708_20180817T034642_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_2_20180817T170031_20180817T175010_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180817T192924_20180817T201858_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice 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 P2P 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_220180816T233841_20180817T002815_C003	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
CS OFFL SIR IOP 2 20180817T002815 20180817T011754 C001	Range Averaging Status Ocean Range Averaging Status, Ice	or more records. The Ocean and Ice Range Averaging Status Flags have been set for one
	Range Averaging Status Ocean Range Averaging Status, Ice	or more records. The Ocean and Ice Range Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_220180817T011754_20180817T020729_C001	Range Averaging Status	or more records.
CS_OFFL_SIR_IOP_220180817T020729_20180817T025708_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T025708_20180817T034642_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T034642_20180817T043622_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T043622_20180817T052556_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T052556_20180817T061535_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T061535_20180817T070510_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T070510_20180817T075449_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T075449_20180817T084423_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T084423_20180817T093403_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T093403_20180817T102337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T102337_20180817T111316_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T111316_20180817T120250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T120250_20180817T125230_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T125230_20180817T134204_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T134204_20180817T143143_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T143143_20180817T152118_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T152118_20180817T161057_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T161057_20180817T170031_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T170031_20180817T175010_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T175010_20180817T183945_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T183945_20180817T192924_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180817T192924_20180817T201858_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T201858_20180817T210838_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T210838_20180817T215812_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T215812_20180817T224751_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T224751_20180817T233725_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T233725_20180818T002705_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice 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 P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

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

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

30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180816T233841_20180817T002815_C003	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_220180817T002815_20180817T011754_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean	or more records.
CS_OFFL_SIR_IOP_220180817T011754_20180817T020729_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T020729_20180817T025708_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T025708_20180817T034642_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T034642_20180817T043622_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T043622_20180817T052556_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T052556_20180817T061535_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T061535_20180817T070510_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T070510_20180817T075449_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T075449_20180817T084423_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T084423_20180817T093403_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T093403_20180817T102337_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T102337_20180817T111316_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T111316_20180817T120250_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T120250_20180817T125230_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T125230_20180817T134204_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T134204_20180817T143143_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T143143_20180817T152118_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T152118_20180817T161057_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T161057_20180817T170031_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T170031_20180817T175010_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T175010_20180817T183945_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T183945_20180817T192924_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T192924_20180817T201858_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T201858_20180817T210838_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T210838_20180817T215812_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T215812_20180817T224751_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T224751_20180817T233725_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180817T233725_20180818T002705_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

Cryosat P2P 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: 27

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180817T002815_20180817T011754_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T011754_20180817T020729_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T020729_20180817T025708_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T025708_20180817T034642_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180817T043622_20180817T052556_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_2__20180817T052556_20180817T061535_C001 CS_OFFL_SIR_IOP_2__20180817T061535_20180817T070510_C001 CS_OFFL_SIR_IOP_2__20180817T070510_20180817T075449_C001 CS_OFFL_SIR_IOP_2__20180817T075449_20180817T084423_C001 CS_OFFL_SIR_IOP_2__20180817T084423_20180817T093403_C001 CS_OFFL_SIR_IOP_2__20180817T093403_20180817T102337_C001 CS OFFL SIR IOP 2 20180817T102337 20180817T111316 C001 CS OFFL SIR IOP 2 20180817T111316 20180817T120250 C001 CS_OFFL_SIR_IOP_2__20180817T120250_20180817T125230_C001 CS_OFFL_SIR_IOP_2__20180817T125230_20180817T134204_C001 CS_OFFL_SIR_IOP_2__20180817T134204_20180817T143143_C001 CS_OFFL_SIR_IOP_2__20180817T143143_20180817T152118_C001 CS_OFFL_SIR_IOP_2__20180817T152118_20180817T161057_C001 CS_OFFL_SIR_IOP_2__20180817T170031_20180817T175010_C001 CS_OFFL_SIR_IOP_2__20180817T175010_20180817T183945_C001 CS OFFL SIR IOP 2 20180817T183945 20180817T192924 C001 CS_OFFL_SIR_IOP_2__20180817T192924_20180817T201858_C001 CS_OFFL_SIR_IOP_2__20180817T201858_20180817T210838_C001 CS_OFFL_SIR_IOP_2_20180817T210838_20180817T215812_C001 CS_OFFL_SIR_IOP_2__20180817T215812_20180817T224751_C001 CS_OFFL_SIR_IOP_2__20180817T224751_20180817T233725_C001 CS OFFL SIR IOP 2 20180817T233725 20180818T002705 C001

Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records.