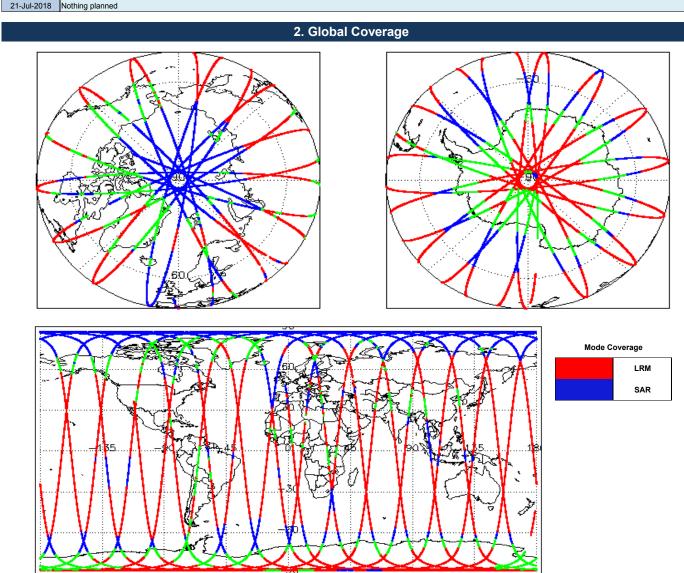


IDEAS+ Daily Report for IOP data:

20/07/2018

		Check	L1 & L2	P2P
Report Production:	23-Jul-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
	Crucest Ocean Pressen	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	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
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Mission / Instru	ment News
19-Jul-2018	None
20-Jul-2018	None
04 101 0040	Marketer and a second and



3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

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 Set Descriptors with respect to a pr	e-determined baseline and also to che	eck 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 for each measurement reco	rd. The bit value of this flag indicates a	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 for each measure	ment record. The bit value of this flag	indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR prod	ucts due to a configuration issue. This	is being investigated and will be updated in the next SW update.
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180720T054150_20180720T055011_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 recor	d. The bit value of this flag indicates a	iny problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
Number of products with errors: 15		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180720T075519_20180720T082026_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180720T210303_20180720T211909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180720T224125_20180720T231414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T005505_20180720T005550_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T005728_20180720T010047_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T132702_20180720T133227_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T163847_20180720T164227_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T200719_20180720T201010_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T221649_20180720T221848_C001	Loss of Echo	The tracking echo is missing for one or more records
CC OFFL CID LODNID 201807207222552 201807207222646 C001	Loss of Echo	The tracking echo is missing for one or more records
JS_OFFL_SIR_IOPN1B_201807201222552_201807201222646_C001	Loss of Echo	The tracking echo is missing for one or more records
		The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T222845_20180720T222931_C001	Loss of Echo	
CS_OFFL_SIR_IOPN1B_20180720T222845_20180720T222931_C001 CS_OFFL_SIR_IOPR1B_20180720T041157_20180720T041243_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T222845_20180720T222931_C001 CS_OFFL_SIR_IOPR1B_20180720T041157_20180720T041243_C001 CS_OFFL_SIR_IOPR1B_20180720T191139_20180720T191606_C001		The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T222845_20180720T222931_C001 CS_OFFL_SIR_IOPR1B_20180720T041157_20180720T041243_C001 CS_OFFL_SIR_IOPR1B_20180720T191139_20180720T191606_C001 CS_OFFL_SIR_IOPR1B_20180720T222931_20180720T223717_C001	Loss of Echo	
CS_OFFL_SIR_IOPN1B_20180720T222845_20180720T222931_C001 CS_OFFL_SIR_IOPR1B_20180720T041157_20180720T041243_C001 CS_OFFL_SIR_IOPR1B_20180720T191139_20180720T191606_C001 CS_OFFL_SIR_IOPR1B_20180720T222931_20180720T223717_C001 CS_OFFL_SIR_IOPR1B_20180720T235632_20180720T235712_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180720T222845_20180720T222931_C001 CS_OFFL_SIR_IOPR1B_20180720T041157_20180720T041243_C001 CS_OFFL_SIR_IOPR1B_20180720T191139_20180720T191606_C001 CS_OFFL_SIR_IOPR1B_20180720T222931_20180720T223717_C001 CS_OFFL_SIR_IOPR1B_20180720T235632_20180720T235712_C001 5.1 L2 Product Format Check	Loss of Echo Loss of Echo Loss of Echo DP Level 2 Data Quali	The tracking echo is missing for one or more records The tracking echo is missing for one or more records ty Check
CS_OFFL_SIR_IOPN1B_20180720T222845_20180720T222931_C001 CS_OFFL_SIR_IOPR1B_20180720T041157_20180720T041243_C001 CS_OFFL_SIR_IOPR1B_20180720T191139_20180720T191606_C001 CS_OFFL_SIR_IOPR1B_20180720T222931_20180720T223717_C001 CS_OFFL_SIR_IOPR1B_20180720T235632_20180720T235712_C001 CS_OFFL_SIR_IOPR1B_20180720T235632_20180720T235712_C001	Loss of Echo Loss of Echo Loss of Echo DP Level 2 Data Quali	The tracking echo is missing for one or more records The tracking echo is missing for one or more records ty Check

Number of products with errors:

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. 0

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). 0

1

0

Number of products with errors:

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180720T054150_20180720T055011_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. 82

CS_OFFL_SIR_IOPM_2_20180719T234341_20180720T00455_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for corcods. CS_OFFL_SIR_IOPM_2_20180720T001141_20180720T001256_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for corcods. CS_OFFL_SIR_IOPM_2_20180720T002219_20180720T004017_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for corcods. CS_OFFL_SIR_IOPM_2_20180720T00405_20180720T004638_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for corcods. CS_OFFL_SIR_IOPM_2_20180720T0104356_20180720T0104638_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for corcods. CS_OFFL_SIR_IOPM_2_20180720T010433_0180720T0104638_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for corcds. CS_OFFL_SIR_IOPM_2_20180720T014644_20180720T015151_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for corcds. CS_OFFL_SIR_IOPM_2_20180720T02055_0180720T023753_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for corcds. CS_OFFL_SIR_IOPM_2_20180720T03515_0180720T032562_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for corcds. CS_OFFL_SIR_IOPM_2_20180720T032547_20180720T033152_C001 O	e or more r one or more e or more e or more r one or more r one or more r one or more e or more r one or more e or more
CS_OFFL_SIR_IOPM_2_20180720T001141_20180720T003217_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T003219_0180720T003217_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T004156_0180720T00435_C0180720T004638_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T01633_20180720T014338_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T01633_0180720T015454_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T015215_0180720T02550_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T023514_20180720T02353_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T032547_20180720T03266_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T033547_20180720T03356_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T033556_C001 Ic	r one or more r one or more r one or more r one or more e or more r one or more e or more e or more e or more e or more
CS_OFFL_SIR_IOPM_2_20180720T002219_20180720T003217_C001 Ocean Range Averaging Status The Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180720T004156_20180720T004638_C001 Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180720T004156_20180720T004638_C001 Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180720T014338_C001 Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180720T014644_20180720T01545_C001 Ice Range Averaging Status The Ice Range Averaging Status The Ice Range Averaging Status CS_OFFL_SIR_IOPM_2_20180720T01515_20180720T015510_C001 Ice Range Averaging Status The Ice Range Averaging Status The Ice Range Averaging Status CS_OFFL_SIR_IOPM_2_20180720T023551_20180720T023553_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T03551_20180720T030537_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T033514_20180720T03352_C001 Ice Range Averaging Status The Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T033512_0180720T03352_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T033512_0180720T03352_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T03352_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T033552_C010 Ice Range Averaging Status The Ice Range Averagi	r one or more r one or more r one or more he or more he or more r one or more r one or more r one or more r one or more he or more he or more r one or more he or more
CS_OFFL_SIR_IOPM_2_20180720T003405_20180720T004017_C001 Cean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T014644_20180720T014338_C001 Cean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T014644_20180720T014338_C001 Cean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records. CS_OFFL_SIR_IOPM_2_20180720T014644_20180720T015154_C001 Lee Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T015215_20180720T015510_C001 Lee Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T02055_20180720T023339_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T02055_20180720T02353_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T02055_20180720T02353_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T020525_20180720T03355_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T032547_20180720T03355_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T03405_20180720T03355_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T03405_20180720T03356_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T03405_20180720T03356_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records. CS_OFFL_SIR_IOPM_2_20180720T03405_20180720T03456_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been	r one or more n one or more he or more n one or more n one or more r one or more n one or more n one or more he or more he or more
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CS_OFFL_SIR_IOPM_2_20180720T054150_20180720T055011_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFFL_SIR_IOPM_2_20180720T061932_20180720T064021_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFFL_SIR_IOPM_2_20180720T064545_20180720T064919_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for on records.	e or more
CS_OFFL_SIR_IOPM_2_20180720T064926_20180720T064935_C001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for on records.	e or more
CS_OFFL_SIR_IOPM_2_20180720T064941_20180720T065258_C001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for on records.	e or more
CS_OFFL_SIR_IOPM_2_20180720T065631_20180720T072424_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFEL_SIR_IOPM_2_20180720T075519_20180720T082026_C001Ocean Range Averaging Status Flag has been set fo	r one or more
CS_OFFL_SIR_IOPM_2_20180720T082327_20180720T082833_C001 Lice Range Averaging Status The lice Range Averaging Status Flag has been set for on	e or more
CS_OFFL_SIR_IOPM_2_20180720T083617_20180720T084640_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for the Ocean Range Averaging Status Fla	r one or more
CS_OFFL_SIR_IOPM_2_20180720T085218_20180720T090932_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for	r one or more
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CS_OFFL_SIR_IOPM_2_20180720T092207_20180720T092848_C001 Ocean Range Averaging Status The Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set to records. The Ocean Range Averaging Status Flag has been set to records.	r one or more
CS_OFFL_SIR_IOPM_2_20180/201095515_20180/201095938_C001 Ocean Range Averaging Status records.	
CS_OFFL_SIR_IOPM_2_201807201100326_201807201100906_C001 ICe Range Averaging Status records.	
CS_OFFL_SIR_IOPM_2_20180720T101001_20180720T101107_C001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for on records.	
CS_OFFL_SIR_IOPM_2_20180720T101634_20180720T104901_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	
CS_OFFL_SIR_IOPM_2_20180720T105014_20180720T105033_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	
CS_OFFL_SIR_IOPM_2_20180720T105109_20180720T105137_C001 Ccean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFFL_SIR_IOPM_2_20180720T110122_20180720T110258_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFFL_SIR_IOPM_2_20180720T112135_20180720T113746_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFFL_SIR_IOPM_2_20180720T114250_20180720T114800_C001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for on records.	e or more
CS_OFFL_SIR_IOPM_2_20180720T115453_20180720T123038_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFFL_SIR_IOPM_2_20180720T124023_20180720T124220_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for records.	r one or more
CS_OFEL_SIR_IOPM_2_20180720T125234_20180720T125705_C001Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set fo	r one or more
CS_OFEL_SIR_IOPM_2_20180720T125750_20180720T131525_C001Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set fo	r one or more
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CS_OFFL_SIR_IOPM_2_20180/201142237_20180/201144119_C001 Ocean Range Averaging Status records.	
CS_OFFL_SIR_IOPIM_2_201807201144215_201807201145547_C001 Ocean Range Averaging Status records.	
CS_OFFL_SIR_IOPM_2_20180/201150/31_20180/201151113_C001 Ice Range Averaging Status records.	
CS_OFFL_SIR_IOPM_2_20180720T151334_20180720T152834_C001 Ocean Range Averaging Status Ocean Range Averaging Status records.	

CS_OFFL_SIR_IOPM_2_20180720T153036_20180720T153958_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T155806_20180720T155931_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T160151_20180720T161915_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T163521_20180720T163639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T164227_20180720T165015_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T165311_20180720T170738_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T174534_20180720T181716_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T182048_20180720T182301_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T182315_20180720T182908_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T183302_20180720T185725_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T192929_20180720T193956_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T194531_20180720T195603_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T200259_20180720T200719_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T201206_20180720T203713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T204313_20180720T204918_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T210303_20180720T211908_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T211942_20180720T213418_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T214209_20180720T214748_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T215059_20180720T215531_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T222646_20180720T222845_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T224125_20180720T231414_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T232113_20180720T232625_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T233139_20180720T234809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180720T000822_20180720T001140_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180720T110018_20180720T110033_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180720T132702_20180720T133227_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180720T141131_20180720T141225_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180720T032317_20180720T032405_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180720T051639_20180720T051645_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180720T113746_20180720T114124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180720T163829_20180720T163846_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180720T181716_20180720T181857_C001	Ocean Range Averaging Status	The Ocean 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 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 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. 81

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180719T234341_20180720T000455_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_20180720T001141_20180720T001256_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T001304_20180720T001710_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T002219_20180720T003217_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_20180720T003405_20180720T004017_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_20180720T004156_20180720T004638_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_20180720T010833_20180720T014338_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_20180720T014644_20180720T015154_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T015215_20180720T015510_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T020255_20180720T023339_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_20180720T023514_20180720T023753_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180720T024702_20180720T030637_C001 CS OFFL SIR IOPM 2 20180720T030815 20180720T032316 C001 CS_OFFL_SIR_IOPM_2_20180720T032547_20180720T033052_C001 CS_OFFL_SIR_IOPM_2_20180720T033131_20180720T033256_C001 CS_OFFL_SIR_IOPM_2_20180720T034025_20180720T035031_C001 CS_OFFL_SIR_IOPM_2_20180720T035651_20180720T041156_C001 CS OFFL SIR IOPM 2 20180720T042553 20180720T044336 C001 CS OFFL SIR IOPM 2 20180720T044816 20180720T050151 C001 CS_OFFL_SIR_IOPM_2_20180720T050502_20180720T051002_C001 CS_OFFL_SIR_IOPM_2_20180720T051044_20180720T051148_C001 CS OFFL SIR IOPM 2 20180720T051807 20180720T054027 C001 CS_OFFL_SIR_IOPM_2_20180720T054150_20180720T055011_C001 CS OFFL SIR IOPM 2 20180720T061932 20180720T064021 C001 CS_OFFL_SIR_IOPM_2_20180720T064545_20180720T064919_C001 CS_OFFL_SIR_IOPM_2_20180720T064926_20180720T064935_C001 CS OFFL SIR IOPM 2 20180720T064941 20180720T065258 C001 CS_OFFL_SIR_IOPM_2_20180720T065631_20180720T072424_C001 CS_OFFL_SIR_IOPM_2_20180720T075519_20180720T082026_C001 CS_OFFL_SIR_IOPM_2_20180720T082327_20180720T082833_C001 CS_OFFL_SIR_IOPM_2_20180720T083617_20180720T084640_C001 CS_OFFL_SIR_IOPM_2_20180720T085218_20180720T090932_C001 CS OFFL SIR IOPM 2 20180720T092207 20180720T092848 C001 CS_OFFL_SIR_IOPM_2_20180720T095515_20180720T095938_C001 CS OFFL SIR IOPM 2 20180720T100326 20180720T100906 C001 CS OFFL SIR IOPM 2 20180720T101001 20180720T101107 C001 CS_OFFL_SIR_IOPM_2_20180720T101634_20180720T104901_C001 CS_OFFL_SIR_IOPM_2_20180720T105014_20180720T105033_C001 CS_OFFL_SIR_IOPM_2_20180720T105109_20180720T105137_C001 CS_OFFL_SIR_IOPM_2_20180720T110122_20180720T110258_C001 CS OFFL SIR IOPM 2 20180720T112135 20180720T113746 C001 CS_OFFL_SIR_IOPM_2_20180720T115453_20180720T123038_C001 CS_OFFL_SIR_IOPM_2_20180720T124023_20180720T124220_C001 CS OFFL SIR IOPM 2 20180720T125750 20180720T131525 C001 CS_OFFL_SIR_IOPM_2_20180720T133437_20180720T141034_C001 CS_OFFL_SIR_IOPM_2_20180720T142237_20180720T144119_C001 CS OFFL SIR IOPM 2 20180720T144215 20180720T145547 C001 CS_OFFL_SIR_IOPM_2_20180720T150731_20180720T151113_C001 CS OFFL SIR IOPM 2 20180720T151334 20180720T152834 C001 CS OFFL SIR IOPM 2 20180720T153036 20180720T153958 C001 CS_OFFL_SIR_IOPM_2_20180720T155806_20180720T155931_C001 CS_OFFL_SIR_IOPM_2_20180720T160151_20180720T161915_C001 CS OFFL SIR IOPM 2 20180720T163521 20180720T163639 C001 CS_OFFL_SIR_IOPM_2_20180720T164227_20180720T165015_C001 CS OFFL SIR IOPM 2 20180720T165311 20180720T170738 C001 CS_OFFL_SIR_IOPM_2_20180720T174534_20180720T181716_C001 CS_OFFL_SIR_IOPM_2_20180720T182048_20180720T182301_C001 CS OFFL SIR IOPM 2 20180720T182315 20180720T182908 C001 CS_OFFL_SIR_IOPM_2_20180720T183302_20180720T185725_C001 CS_OFFL_SIR_IOPM_2_20180720T192929_20180720T193956_C001 CS OFFL SIR IOPM 2 20180720T194531 20180720T195603 C001 CS_OFFL_SIR_IOPM_2_20180720T200259_20180720T200719_C001 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 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

Ice Backscatter Averaging Status

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Ice 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

Ice Backscatter Averaging Status

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

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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 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 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 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 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 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 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 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.

CS_OFFL_SIR_IOPM_2_20180720T201206_20180720T203713_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_20180720T204313_20180720T204918_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_20180720T210303_20180720T211908_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_20180720T211942_20180720T213418_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_20180720T214209_20180720T214748_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T215059_20180720T215531_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_20180720T222646_20180720T222845_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_20180720T224125_20180720T231414_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_20180720T232113_20180720T232625_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180720T233139_20180720T234809_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_IOPN_2_20180720T000822_20180720T001140_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180720T110018_20180720T110033_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_IOPN_2_20180720T132702_20180720T133227_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_IOPN_2_20180720T141131_20180720T141225_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_IOPR_2_20180720T032317_20180720T032405_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_IOPR_2_20180720T051639_20180720T051645_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_IOPR_2_20180720T113746_20180720T114124_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_IOPR_2_20180720T163829_20180720T163846_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_IOPR_2_20180720T181716_20180720T181857_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag 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. 61 Number of products with errors:

6. IOP L2 Pole-to-Pole Data Quality Check

6.1 P2P 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 NetCDF product file (.nc). Number of products with errors:

6.2 P2P 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:

6.3 P2P 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. Number of products with errors: 0

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).

1

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180720T051024_20180720T060000_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_220180719T232306_20180720T001244_C002	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_220180720T001244_20180720T010220_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_220180720T010220_20180720T015157_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_220180720T015157_20180720T024133_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_220180720T024133_20180720T033111_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_220180720T033111_20180720T042047_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_220180720T042047_20180720T051024_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_220180720T051024_20180720T060000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T060000_20180720T064938_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_220180720T064938_20180720T073914_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_220180720T073914_20180720T082852_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_220180720T082852_20180720T091828_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_220180720T091828_20180720T100805_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_220180720T100805_20180720T105741_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_220180720T105741_20180720T114719_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_220180720T114719_20180720T123655_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T123655_20180720T132632_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T132632_20180720T141608_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T141608_20180720T150546_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T150546_20180720T155522_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_220180720T155522_20180720T164500_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_220180720T164500_20180720T173435_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_220180720T173435_20180720T182413_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T182413_20180720T191349_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_220180720T191349_20180720T200327_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T200327_20180720T205303_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_220180720T205303_20180720T214241_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_220180720T214241_20180720T223216_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_220180720T223216_20180720T232154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T232154_20180721T001130_C003	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have 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:
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Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180719T232306_20180720T001244_C002	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_220180720T001244_20180720T010220_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_220180720T010220_20180720T015157_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_220180720T015157_20180720T024133_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_220180720T024133_20180720T033111_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_220180720T033111_20180720T042047_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_220180720T042047_20180720T051024_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_220180720T051024_20180720T060000_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_220180720T060000_20180720T064938_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_220180720T064938_20180720T073914_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_220180720T073914_20180720T082852_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_220180720T082852_20180720T091828_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_220180720T091828_20180720T100805_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_220180720T100805_20180720T105741_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_220180720T105741_20180720T114719_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_220180720T114719_20180720T123655_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_220180720T123655_20180720T132632_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_220180720T132632_20180720T141608_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_220180720T141608_20180720T150546_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_2_20180720T150546_20180720T155522_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_220180720T155522_20180720T164500_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_220180720T164500_20180720T173435_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_220180720T173435_20180720T182413_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_220180720T182413_20180720T191349_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_220180720T191349_20180720T200327_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_2_20180720T200327_20180720T205303_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_220180720T205303_20180720T214241_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_220180720T214241_20180720T223216_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_220180720T223216_20180720T232154_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_220180720T232154_20180721T001130_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.

6.8 P2P Ocean Retracking Quality Check

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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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180720T001244_20180720T010220_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T010220_20180720T015157_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T015157_20180720T024133_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T024133_20180720T033111_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T033111_20180720T042047_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T042047_20180720T051024_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T051024_20180720T060000_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T060000_20180720T064938_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T064938_20180720T073914_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T073914_20180720T082852_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T082852_20180720T091828_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T091828_20180720T100805_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T100805_20180720T105741_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T105741_20180720T114719_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T114719_20180720T123655_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T123655_20180720T132632_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T132632_20180720T141608_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T141608_20180720T150546_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T150546_20180720T155522_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T155522_20180720T164500_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T173435_20180720T182413_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_2_20180720T182413_20180720T191349_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T191349_20180720T200327_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T200327_20180720T205303_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T205303_20180720T214241_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T214241_20180720T223216_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180720T223216_20180720T232154_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.