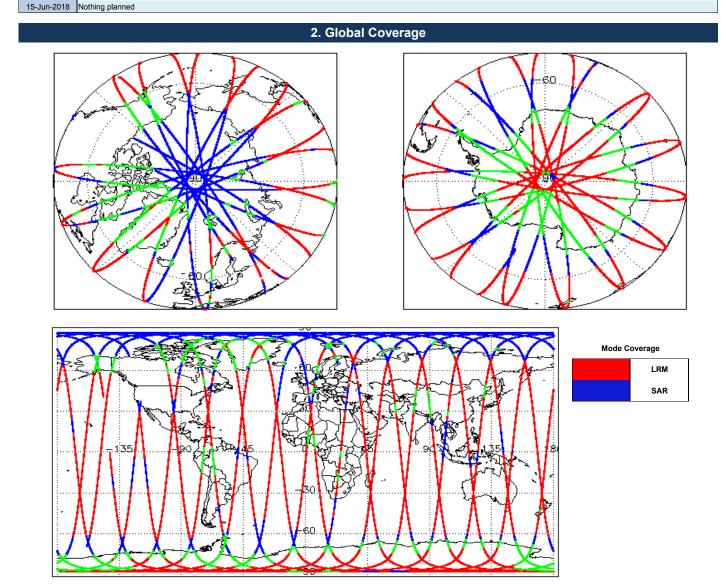


IDEAS+ Daily Report for IOP data:

14/06/2018

1. Overview				
		<u>.</u>		
Report Production:	18-Jun-2018	Check	L1 & L2	P2P
	10 0011 2010	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrucSat Occan Brasson	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
Dala Useu.	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 4.6	Nominal
		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

Mission / Instrument News 13-Jun-2018 None 14-Jun-2018 None



3. Instrument Configuration

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

SIRAL - A

0

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

4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pro	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement recor	d. The bit value of this flag indicat	es 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 measurer	nent record. The bit value of this f	ag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR produ	ucts due to a configuration issue. T	his is being investigated and will be updated in the next SW update.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement recom	d. The bit value of this flag indicate	es any problems when set
Loss of Echo Flag: This flag is currently set for products over land, but this is	-	
Number of products with errors: 21		
	Test Foiled	Departmen
Product CS_OFFL_SIR_IOPM1B_20180614T145118_20180614T145403_C001	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180614T155734_20180614T161418_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180614T230842_20180614T231145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T000319_20180614T000409_C001	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
CS_OFFL_SIR_IOPN1B_20180614T032222_20180614T032342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T045639_20180614T050055_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T060022_20180614T060154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T063720_20180614T064146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T132314_20180614T132414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T164459_20180614T164604_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T164613_20180614T164646_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T172043_20180614T172655_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T182417_20180614T182623_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T195912_20180614T200411_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180614T205128_20180614T205351_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180614T000410_20180614T001157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180614T013442_20180614T013543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180614T022745_20180614T022947_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180614T113622_20180614T114600_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180614T213425_20180614T213934_C001	Loss of Echo	The tracking echo is missing for one or more records
5.10	P Level 2 Data Qua	lity 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	neader file (.HDR) and a binary product file (.DBL).
Number of products with errors: 0		
5.2 L2 Product Header Analysis		
•	d SPH in order to identify any inco	neistancies and/or arrors raised by the ground sogment processing chain
or all products, a series of pre-defined checks are performed on the MPH an	a Sentin order to identity any Inco	naistencies anu/or errors raised by the ground-segment processing chain.

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. 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

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:

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.

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Test Failed

Description

Product

CS_OFFL_SIR_IOPM_2_20180614T001531_20180614T004858_C001 CS_OFFL_SIR_IOPM_2_20180614T005546_20180614T010058_C001 CS_OFFL_SIR_IOPM_2_20180614T010441_20180614T012212_C001 CS_OFFL_SIR_IOPM_2_20180614T014036_20180614T014124_C001 CS_OFFL_SIR_IOPM_2_20180614T015309_20180614T022245_C001

CS_OFFL_SIR_IOPM_2_20180614T000133_20180614T000239_C001

CS_OFFL_SIR_IOPM_2_20180614T015309_20180614T022245_C001 CS_OFFL_SIR_IOPM_2_20180614T022256_20180614T022745_C001 CS OFFL SIR IOPM 2 20180614T023355 20180614T023546 C001 CS OFFL SIR IOPM 2 20180614T023552 20180614T024006 C001 CS_OFFL_SIR_IOPM_2_20180614T024443_20180614T031750_C001 CS OFFL SIR IOPM 2 20180614T031750 20180614T031834 C001 CS_OFFL_SIR_IOPM_2_20180614T032135_20180614T032222_C001 CS OFFL SIR IOPM 2 20180614T033115 20180614T034950 C001 CS_OFFL_SIR_IOPM_2_20180614T035002_20180614T035245_C001 CS_OFFL_SIR_IOPM_2_20180614T035249_20180614T040703_C001 CS OFFL SIR IOPM 2 20180614T040922 20180614T041444 C001 CS_OFFL_SIR_IOPM_2_20180614T042552_20180614T043819_C001 CS_OFFL_SIR_IOPM_2_20180614T043943_20180614T045639_C001 CS OFFL SIR IOPM 2 20180614T051815 20180614T052920 C001 CS OFFL SIR IOPM 2 20180614T053122 20180614T054559 C001 CS OFFL SIR IOPM 2 20180614T054848 20180614T055343 C001 CS OFFL SIR IOPM 2 20180614T055420 20180614T055538 C001 CS OFFL SIR IOPM 2 20180614T060225 20180614T060648 C001 CS_OFFL_SIR_IOPM_2_20180614T062006_20180614T063244_C001 CS_OFFL_SIR_IOPM_2_20180614T071029_20180614T072458_C001 CS_OFFL_SIR_IOPM_2_20180614T072823_20180614T073312_C001 CS OFFL SIR IOPM 2 20180614T073333 20180614T073451 C001 CS_OFFL_SIR_IOPM_2_20180614T074025_20180614T080610_C001 CS_OFFL_SIR_IOPM_2_20180614T083939_20180614T090423_C001 CS OFFL SIR IOPM 2 20180614T090820 20180614T091210 C001 CS_OFFL_SIR_IOPM_2_20180614T091231_20180614T091557_C001 CS_OFFL_SIR_IOPM_2_20180614T091922_20180614T093028_C001 CS OFFL SIR IOPM 2 20180614T093600 20180614T094555 C001 CS_OFFL_SIR_IOPM_2_20180614T101705_20180614T104352_C001 CS_OFFL_SIR_IOPM_2_20180614T105129_20180614T105500_C001 CS OFFL SIR IOPM 2 20180614T105921 20180614T110944 C001 CS_OFFL_SIR_IOPM_2_20180614T111132_20180614T111636_C001 CS_OFFL_SIR_IOPM_2_20180614T112755_20180614T113259_C001 CS OFFL SIR IOPM 2 20180614T114600 20180614T114828 C001 CS_OFFL_SIR_IOPM_2_20180614T122628_20180614T123153_C001 CS OFFL SIR IOPM 2 20180614T123837 20180614T125959 C001 CS OFFL SIR IOPM 2 20180614T130245 20180614T131333 C001 CS_OFFL_SIR_IOPM_2_20180614T132435_20180614T132747_C001 CS OFFL SIR IOPM 2 20180614T134400 20180614T140114 C001 CS_OFFL_SIR_IOPM_2_20180614T140554_20180614T141050_C001 CS_OFFL_SIR_IOPM_2_20180614T141744_20180614T145013_C001 CS OFFL SIR IOPM 2 20180614T151420 20180614T153829 C001 CS_OFFL_SIR_IOPM_2_20180614T154803_20180614T154955_C001 CS OFFL SIR IOPM 2 20180614T155734 20180614T161418 C001

Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status

The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more record The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records

CS_OFFL_SIR_IOPM_2_20180614T161900_20180614T163320_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T164202_20180614T164459_C001	Ice Range Averaging Status	The loc Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T164709_20180614T170301_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T170515_20180614T172000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T172655_20180614T172907_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T172951_20180614T173409_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T173629_20180614T175047_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T175226_20180614T181305_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T183033_20180614T184019_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T184709_20180614T190034_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T190447_20180614T191311_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T191547_20180614T193815_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T201418_20180614T204018_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T204348_20180614T204545_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T204633_20180614T205128_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T205546_20180614T211951_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T215302_20180614T220256_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T220834_20180614T221848_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T222554_20180614T223152_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T223411_20180614T230222_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T230842_20180614T231145_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T232447_20180614T235751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T060022_20180614T060154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T090554_20180614T090820_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T113459_20180614T113622_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T154955_20180614T155622_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T172907_20180614T172951_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T182000_20180614T182103_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180614T182225_20180614T182417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180614T223322_20180614T223411_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_20180614T000133_20180614T000239_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_20180614T001531_20180614T004858_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_20180614T005546_20180614T010058_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T010441_20180614T012212_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_20180614T014036_20180614T014124_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_20180614T015309_20180614T022245_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_20180614T022256_20180614T022745_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_20180614T023355_20180614T023546_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T023552_20180614T024006_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T024443_20180614T031750_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_20180614T032135_20180614T032222_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T033115_20180614T034950_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_20180614T035002_20180614T035245_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_20180614T035249_20180614T040703_C001 CS OFFL SIR IOPM 2 20180614T040922 20180614T041444 C001 CS_OFFL_SIR_IOPM_2_20180614T042552_20180614T043819_C001 CS_OFFL_SIR_IOPM_2_20180614T043943_20180614T045639_C001 CS_OFFL_SIR_IOPM_2_20180614T051815_20180614T052920_C001 CS_OFFL_SIR_IOPM_2_20180614T053122_20180614T054559_C001 CS OFFL SIR IOPM 2 20180614T054848 20180614T055343 C001 CS OFFL SIR IOPM 2 20180614T055402 20180614T055413 C001 CS_OFFL_SIR_IOPM_2_20180614T060225_20180614T060648_C001 CS_OFFL_SIR_IOPM_2_20180614T062006_20180614T063244_C001 CS OFFL SIR IOPM 2 20180614T071029 20180614T072458 C001 CS_OFFL_SIR_IOPM_2_20180614T072823_20180614T073312_C001 CS OFFL SIR IOPM 2 20180614T073333 20180614T073451 C001 CS_OFFL_SIR_IOPM_2_20180614T074025_20180614T080610_C001 CS_OFFL_SIR_IOPM_2_20180614T083939_20180614T090423_C001 CS OFFL SIR IOPM 2 20180614T090820 20180614T091210 C001 CS_OFFL_SIR_IOPM_2_20180614T091231_20180614T091557_C001 CS_OFFL_SIR_IOPM_2_20180614T091922_20180614T093028_C001 CS_OFFL_SIR_IOPM_2_20180614T093600_20180614T094555_C001 CS_OFFL_SIR_IOPM_2_20180614T101705_20180614T104352_C001 CS_OFFL_SIR_IOPM_2_20180614T104636_20180614T105124_C001 CS OFFL SIR IOPM 2 20180614T105921 20180614T110944 C001 CS_OFFL_SIR_IOPM_2_20180614T11132_20180614T111636_C001 CS OFFL SIR IOPM 2 20180614T112755 20180614T113259 C001 CS OFFL SIR IOPM 2 20180614T114600 20180614T114828 C001 CS_OFFL_SIR_IOPM_2_20180614T121753_20180614T121938_C001 CS_OFFL_SIR_IOPM_2_20180614T122137_20180614T122248_C001 CS_OFFL_SIR_IOPM_2_20180614T122628_20180614T123153_C001 CS_OFFL_SIR_IOPM_2_20180614T123837_20180614T125959_C001 CS OFFL SIR IOPM 2 20180614T130245 20180614T131333 C001 CS_OFFL_SIR_IOPM_2_20180614T132435_20180614T132747_C001 CS_OFFL_SIR_IOPM_2_20180614T134400_20180614T140114_C001 CS OFFL SIR IOPM 2 20180614T140554 20180614T141050 C001 CS_OFFL_SIR_IOPM_2_20180614T141744_20180614T145013_C001 CS_OFFL_SIR_IOPM_2_20180614T151420_20180614T153829_C001 CS OFFL SIR IOPM 2 20180614T154803 20180614T154955 C001 CS_OFFL_SIR_IOPM_2_20180614T155734_20180614T161418_C001 CS OFFL SIR IOPM 2 20180614T161900 20180614T163320 C001 CS OFFL SIR IOPM 2 20180614T164202 20180614T164459 C001 CS_OFFL_SIR_IOPM_2_20180614T164709_20180614T170301_C001 CS_OFFL_SIR_IOPM_2_20180614T170515_20180614T172000_C001 CS OFFL SIR IOPM 2 20180614T172655 20180614T172907 C001 CS_OFFL_SIR_IOPM_2_20180614T172951_20180614T173409_C001 CS OFFL SIR IOPM 2 20180614T173629 20180614T175047 C001 CS_OFFL_SIR_IOPM_2_20180614T175226_20180614T181305_C001 CS_OFFL_SIR_IOPM_2_20180614T182103_20180614T182140_C001 CS OFFL SIR IOPM 2 20180614T183033 20180614T184019 C001 CS_OFFL_SIR_IOPM_2_20180614T184709_20180614T190034_C001 CS_OFFL_SIR_IOPM_2_20180614T190447_20180614T191311_C001 CS OFFL SIR IOPM 2 20180614T191547 20180614T193815 C001 CS_OFFL_SIR_IOPM_2_20180614T201418_20180614T204018_C001 SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records. 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 records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records 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 records SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean

Backscatter Averaging Status

Backscatter Averaging Status

SWH Averaging Status, Ocean

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 ecords 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 The Ice Backscatter Averaging Status Flag has been set for one or more 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 record 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 The Ice Backscatter Averaging Status Flag has been set for one or more 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 The Ice Backscatter Averaging Status Flag has been set for one or more 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 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 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 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 record The Ice Backscatter Averaging Status Flag has been set for one or more 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 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 The SWH and Ocean Averaging Status Flags have been set for one or more record 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 The Ice Backscatter Averaging Status Flag has been set for one or more 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 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 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.

CS_OFFL_SIR_IOPM_2_20180614T204348_20180614T204545_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T204633_20180614T205128_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T205546_20180614T211951_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_20180614T215302_20180614T220256_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_20180614T220834_20180614T221848_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_20180614T222554_20180614T223152_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180614T223411_20180614T230222_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_20180614T230842_20180614T231145_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_20180614T232447_20180614T235751_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_20180614T060022_20180614T060154_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_20180614T090554_20180614T090820_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T113459_20180614T113622_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_20180614T154955_20180614T155622_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T172907_20180614T172951_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180614T182000_20180614T182103_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180614T182225_20180614T182417_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_20180614T223322_20180614T223411_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. 64

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: 0

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: 0

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:

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). Number of products with errors: 0

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:

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_220180613T231716_20180614T000655_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T000655_20180614T005629_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_220180614T005629_20180614T014609_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_220180614T014609_20180614T023543_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T023543_20180614T032522_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_220180614T032522_20180614T041456_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_220180614T041456_20180614T050436_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_220180614T050436_20180614T055410_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_220180614T055410_20180614T064350_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_220180614T064350_20180614T073324_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_220180614T073324_20180614T082303_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_2_20180614T082303_20180614T091237_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_220180614T091237_20180614T100217_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_220180614T100217_20180614T105151_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_220180614T105151_20180614T114130_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T114130_20180614T123105_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_220180614T123105_20180614T132044_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_220180614T132044_20180614T141018_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_220180614T141018_20180614T145958_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T145958_20180614T154932_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_220180614T154932_20180614T163911_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T163911_20180614T172845_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T172845_20180614T181825_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_220180614T181825_20180614T190759_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_220180614T190759_20180614T195738_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_220180614T195738_20180614T204712_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T204712_20180614T213652_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_220180614T213652_20180614T222626_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_2_20180614T222626_20180614T231606_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_220180614T231606_20180615T000540_C002	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:

CS OFFL SIR IOP 2 20180613T231716 20180614T000655 C002 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been s	set for one or
Backscatter Averaging Status more records.	
CS_OFFL_SIR_IOP_2_20180614T000655_20180614T005629_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T005629_20180614T014609_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T014609_20180614T023543_C001 SWH Averaging Status, Ocean Backscatter Averaging Status are been s more records.	set for one or
CS_OFFL_SIR_IOP_2_20180614T023543_20180614T032522_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T032522_20180614T041456_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T041456_20180614T050436_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T050436_20180614T055410_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T055410_20180614T064350_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been s more records.	set for one or
CS_OFFL_SIR_IOP_2_20180614T064350_20180614T073324_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T073324_20180614T082303_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T082303_20180614T091237_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T091237_20180614T100217_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are be or more records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T100217_20180614T105151_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are records.	een set for one
CS_OFFL_SIR_IOP_2_20180614T105151_20180614T114130_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status are records.	een set for one

CS_OFFL_SIR_IOP_220180614T114130_20180614T123105_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_220180614T123105_20180614T132044_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_220180614T132044_20180614T141018_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_220180614T141018_20180614T145958_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_220180614T145958_20180614T154932_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_220180614T154932_20180614T163911_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_220180614T163911_20180614T172845_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_220180614T172845_20180614T181825_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_220180614T181825_20180614T190759_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_220180614T190759_20180614T195738_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_220180614T195738_20180614T204712_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_220180614T204712_20180614T213652_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_220180614T213652_20180614T222626_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_220180614T222626_20180614T231606_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_220180614T231606_20180615T000540_C002	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: 29

CS_OFFL_SIR_IOP201806131231716_201806141000655_C002 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP201806141000552_01906141005529_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP201806141014009_C01910 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP20180614103252_201806141032522_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP20180614103252_20180614103455_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP2018061410345_01800141005436_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP201806141005430_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_21806141005430_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_201806141005430_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_201806141005430_C001 O	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180614T005629_20180614T014609_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180614T02543_20180614T02522_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180614T02543_20180614T02522_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180614T031522_20180614T051456_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180614T05140_01805_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180614T05130_C0180614T0510_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180614T091237_C011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180614T1091237_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T109127_C0180614T11010_C0180614T11001_C0201 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. <td>CS_OFFL_SIR_IOP_220180613T231716_20180614T000655_C002</td> <td>Ocean Retracking Quality Flag</td> <td>The Ocean Retracking Quality Flag has been set for one or more records.</td>	CS_OFFL_SIR_IOP_220180613T231716_20180614T000655_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_0180614T023543_02010Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T023543_02180614T032522_02180614T032522_0180614T032522_0180614T032522_0180614T054162_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T03252_0180614T05436_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T05436_01814T05436_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T05410_0180614T0635610_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T06350_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T03230_0110Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T08230_02011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T091237_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T10217_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T10217_0180614T10217_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T10217_0180614T10217_0180614T10217_0180614T112105_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T1130_0217_0180614T1130_0201Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_0180614T112015_012016	CS_OFFL_SIR_IOP_220180614T000655_20180614T005629_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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	CS_OFFL_SIR_IOP_2_20180614T181825_20180614T190759_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180614T195738_20180614T204712_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_2_20180614T190759_20180614T195738_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_IOP_220180614T195738_20180614T204712_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180614T204712_20180614T213652_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T213652_20180614T222626_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T222626_20180614T231606_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180614T231606_20180615T000540_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.