

IDEAS+ Daily Report for IOP data:

<u>05/09/2018</u>



CRYOSAT				
		1. Overview		
Report Production:	10-Sep-2018	Check	L1 & L2	P2P
		Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int Product Software Check	Nominal	Nominal
		Product Software Check Product Format Check	Nominal Nominal	Nominal Nominal
Data Used:	Intermediate Ocean Products (IOP) 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, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
lission / Instrument N 04-Sep-2018 None	lews			
05-Sep-2018 None				
	g planned			
		2. Global Coverage		
				Aode Coverage

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 pre-	determined baseline and also to chec	k 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 record	. The bit value of this flag indicates an	y 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 measurem	ent record. The bit value of this flag in	dicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.				
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20180905T021022_20180905T022258_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				
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CryoSat L1B data includes a waveform data flag for each measurement record.		y problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is t	to be expected.			
Number of products with errors: 23				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20180905T060829_20180905T063318_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPM1B_20180905T100808_20180905T104407_C001	Loss of Echo	The tracking echo is missing for one or more records		

Loss of Echo

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

Each product, 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).

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.

5. IOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

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The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

5.4 L2 Auxiliary Correction Error Check

5.3 L2 Auxiliary Data File Usage Check

CS_OFFL_SIR_IOPM1B_20180905T141644_20180905T143232_C001

CS OFFL SIR IOPM1B 20180905T185825 20180905T190323 C001

CS_OFFL_SIR_IOPN1B_20180905T004636_20180905T005059_C001

CS_OFFL_SIR_IOPN1B_20180905T005154_20180905T005306_C001

CS OFFL SIR IOPN1B 20180905T015045 20180905T015214 C001

CS_OFFL_SIR_IOPN1B_20180905T022733_20180905T023202_C001

CS OFFL SIR IOPN1B 20180905T091328 20180905T091433 C001

CS_OFFL_SIR_IOPN1B_20180905T105644_20180905T105712_C001

CS_OFFL_SIR_IOPN1B_20180905T123058_20180905T123218_C002

CS OFFL SIR IOPN1B 20180905T123508 20180905T123631 C002

CS_OFFL_SIR_IOPN1B_20180905T131058_20180905T131238_C002

CS_OFFL_SIR_IOPN1B_20180905T140519_20180905T140541_C001

CS_OFFL_SIR_IOPN1B_20180905T140519_20180905T140545_C001

CS_OFFL_SIR_IOPN1B_20180905T154926_20180905T155430_C001

CS_OFFL_SIR_IOPN1B_20180905T222023_20180905T222311_C001

CS_OFFL_SIR_IOPR1B_20180905T000924_20180905T001608_C001

CS_OFFL_SIR_IOPR1B_20180905T011936_20180905T012138_C001

CS_OFFL_SIR_IOPR1B_20180905T031446_20180905T031635_C001

CS_OFFL_SIR_IOPR1B_20180905T072636_20180905T073439_C001

CS_OFFL_SIR_IOPR1B_20180905T172440_20180905T172946_C001

CS_OFFL_SIR_IOPR1B_20180905T204230_20180905T205048_C001

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

Number of products with errors:

5.1 L2 Product Format Check

5.2 L2 Product Header Analysis

Number of products with errors:

Number of products with errors:

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.

Test Failed Power scaling error Description 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. 77

Number of products with errors: //		
Product CS OFFL SIR IOPM 2 20180904T235940 20180905T000503 C001	Test Failed Ice Range Averaging Status	Description The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T001609_20180905T002834_C001	Ocean Range Averaging Status	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
CS_OFFL_SIR_IOPM_2_20180905T002947_20180905T004636_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T010822_20180905T011935_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T012139_20180905T013606_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T013906_20180905T014401_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T014407_20180905T014414_C001	Ice Range Averaging Status	The loc Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T014438_20180905T014557_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180905T015308_20180905T015755_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T021022_20180905T022258_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T022422_20180905T022638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T030058_20180905T031446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T031839_20180905T032314_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T033108_20180905T034810_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T034813_20180905T035631_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T043005_20180905T045345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T045842_20180905T050228_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T050250_20180905T050615_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T050952_20180905T052045_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T052616_20180905T053609_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T055624_20180905T060826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T060829_20180905T063318_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T063651_20180905T064142_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T065002_20180905T065959_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T070414_20180905T072316_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T073439_20180905T073852_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T080827_20180905T080956_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T081646_20180905T082211_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T082931_20180905T085013_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T085259_20180905T090421_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T091433_20180905T091743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T093415_20180905T095045_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T095610_20180905T100108_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T100808_20180905T104407_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T105432_20180905T105533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T110553_20180905T112847_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T113821_20180905T114013_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180905T114815 20180905T120433 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T120915_20180905T122328_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T123631_20180905T125318_C002	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T125532_20180905T130952_C002	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180905T132702_20180905T134137_C002	Ocean Range Averaging Status	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
CS_OFFL_SIR_IOPM_2_20180905T134337_20180905T135258_C002	Ocean Range Averaging Status	records.

CS_OFFL_SIR_IOPM_2_20180905T141118_20180905T141159_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T141303_20180905T141437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T141644_20180905T143232_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T143736_20180905T145039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T145508_20180905T150328_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T150653_20180905T152242_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T152452_20180905T152707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T155430_20180905T160304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T160430_20180905T163022_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T163405_20180905T163604_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T163650_20180905T164149_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T164656_20180905T171016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T174158_20180905T174246_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T174318_20180905T175313_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T175851_20180905T180851_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T181612_20180905T182211_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T182534_20180905T185236_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T185825_20180905T190323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T191509_20180905T194727_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T195519_20180905T200042_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T200455_20180905T200836_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T203846_20180905T204230_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T205410_20180905T210323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T210608_20180905T212729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T213414_20180905T213522_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T213527_20180905T213934_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T214505_20180905T215438_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T215626_20180905T220107_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T223109_20180905T225301_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T231441_20180905T231802_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T233038_20180905T235658_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180905T172420_20180905T172440_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180905T045345_20180905T045615_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180905T140345_20180905T140518_C002	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. 76

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180904T235940_20180905T000503_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T000522_20180905T000739_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T001609_20180905T002834_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T002947_20180905T004636_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_20180905T010822_20180905T011935_C001	3 3 ·	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T012139_20180905T013606_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_20180905T013906_20180905T014401_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T014407_20180905T014414_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T014438_20180905T014557_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180905T015308_20180905T015755_C001 CS OFFL SIR IOPM 2 20180905T021022 20180905T022258 C001 CS_OFFL_SIR_IOPM_2_20180905T022422_20180905T022638_C001 CS_OFFL_SIR_IOPM_2_20180905T030058_20180905T031446_C001 CS_OFFL_SIR_IOPM_2_20180905T031839_20180905T032314_C001 CS_OFFL_SIR_IOPM_2_20180905T033108_20180905T034810_C001 CS OFFL SIR IOPM 2 20180905T034813 20180905T035631 C001 CS OFFL SIR IOPM 2 20180905T043005 20180905T045345 C001 CS_OFFL_SIR_IOPM_2_20180905T045842_20180905T050228_C001 CS_OFFL_SIR_IOPM_2_20180905T050250_20180905T050615_C001 CS_OFFL_SIR_IOPM_2_20180905T050952_20180905T052045_C001 CS_OFFL_SIR_IOPM_2_20180905T052616_20180905T053609_C001 CS OFFL SIR IOPM 2 20180905T055624 20180905T060826 C001 CS_OFFL_SIR_IOPM_2_20180905T060829_20180905T063318_C001 CS_OFFL_SIR_IOPM_2_20180905T063651_20180905T064142_C001 CS OFFL SIR IOPM 2 20180905T065002 20180905T065959 C001 CS_OFFL_SIR_IOPM_2_20180905T070414_20180905T072316_C001 CS_OFFL_SIR_IOPM_2_20180905T073439_20180905T073852_C001 CS_OFFL_SIR_IOPM_2_20180905T080827_20180905T080956_C001 CS_OFFL_SIR_IOPM_2_20180905T081646_20180905T082211_C001 CS_OFFL_SIR_IOPM_2_20180905T082931_20180905T085013_C001 CS OFFL SIR IOPM 2 20180905T085259 20180905T090421 C001 CS_OFFL_SIR_IOPM_2_20180905T091433_20180905T091743_C001 CS OFFL SIR IOPM 2 20180905T093415 20180905T095045 C001 CS OFFL SIR IOPM 2 20180905T095610 20180905T100108 C001 CS OFFL SIR IOPM 2 20180905T100808 20180905T104407 C001 CS_OFFL_SIR_IOPM_2_20180905T105432_20180905T105533_C001 CS_OFFL_SIR_IOPM_2_20180905T110553_20180905T112847_C001 CS_OFFL_SIR_IOPM_2_20180905T113821_20180905T114013_C001 CS OFFL SIR IOPM 2 20180905T114815 20180905T120433 C001 CS_OFFL_SIR_IOPM_2_20180905T120915_20180905T122328_C001 CS_OFFL_SIR_IOPM_2_20180905T123631_20180905T125318_C002 CS OFFL SIR IOPM 2 20180905T125532 20180905T130952 C002 CS_OFFL_SIR_IOPM_2_20180905T132702_20180905T134137_C002 CS_OFFL_SIR_IOPM_2_20180905T134337_20180905T135258_C002 CS_OFFL_SIR_IOPM_2_20180905T141118_20180905T141159_C001 CS_OFFL_SIR_IOPM_2_20180905T141303_20180905T141437_C001 CS OFFL SIR IOPM 2 20180905T141644 20180905T143232 C001 CS OFFL SIR IOPM 2 20180905T143736 20180905T145039 C001 CS_OFFL_SIR_IOPM_2_20180905T145508_20180905T150328_C001 CS_OFFL_SIR_IOPM_2_20180905T150653_20180905T152242_C001 CS OFFL SIR IOPM 2 20180905T152452 20180905T152707 C001 CS_OFFL_SIR_IOPM_2_20180905T155430_20180905T160304_C001 CS_OFFL_SIR_IOPM_2_20180905T160430_20180905T163022_C001 CS_OFFL_SIR_IOPM_2_20180905T163405_20180905T163604_C001 CS_OFFL_SIR_IOPM_2_20180905T163650_20180905T164149_C001 CS OFFL SIR IOPM 2 20180905T164656 20180905T171016 C001 CS_OFFL_SIR_IOPM_2_20180905T174318_20180905T175313_C001 CS_OFFL_SIR_IOPM_2_20180905T175851_20180905T180851_C001 CS OFFL SIR IOPM 2 20180905T181612 20180905T182211 C001 CS_OFFL_SIR_IOPM_2_20180905T182534_20180905T185236_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

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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.

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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.

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

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

The 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 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.

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.

CS_OFFL_SIR_IOPM_2_20180905T185825_20180905T190323_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_20180905T191509_20180905T194727_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_20180905T195519_20180905T200042_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T200455_20180905T200836_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_20180905T203846_20180905T204230_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_20180905T205410_20180905T210323_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_20180905T210608_20180905T212729_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_20180905T213527_20180905T213934_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T214505_20180905T215438_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_20180905T215626_20180905T220107_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_20180905T223109_20180905T225301_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_20180905T231441_20180905T231802_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180905T233038_20180905T235658_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_20180905T172420_20180905T172440_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_20180905T045345_20180905T045615_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_20180905T140345_20180905T140518_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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.

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:

6.4 P2P Auxiliary Correction Error Check

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

0

63

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	U D	Description
CS_OFFL_SIR_IOP_220180905T014422_20180905T023359_C001 Power scali	ng error T	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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180904T231532_20180905T000509_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180905T000509_20180905T005445_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_220180905T005445_20180905T014422_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_220180905T014422_20180905T023359_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180905T023359_20180905T032336_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_220180905T032336_20180905T041313_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_20180905T041313_20180905T050249_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_20180905T055226_20180905T064203_C001Range Averaging Statusor more records.CS_OFFL_SIR_IOP_2_20180905T064203_20180905T064203_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T064203_20180905T073140_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T073140_20180905T082117_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T082117_20180905T091054_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T091054_20180905T100030_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T100030_20180905T100030_C001Ocean Range Averaging Status, Ice Range Averaging Status Flag has been set for one or more records.The Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T100030_20180905T105007_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IO	DP_2_20180905T055226_20180905T064203_C001 DP_2_20180905T064203_20180905T073140_C001 DP_2_20180905T064203_20180905T082117_C001 DP_2_20180905T082117_20180905T091054_C001 DP_2_20180905T091054_20180905T100030_C001 DP_2_20180905T100030_20180905T105007_C001	2_201809051050249_201809051055226_2001 Range Averaging Status 2_20180905T055226_20180905T064203_C001 Ocean Range Averaging Status 2_20180905T064203_20180905T073140_C001 Ocean Range Averaging Status 2_20180905T073140_20180905T082117_C001 Ocean Range Averaging Status 2_20180905T082117_20180905T082117_C001 Ocean Range Averaging Status 2_20180905T082117_20180905T091054_C001 Ocean Range Averaging Status 2_20180905T082117_20180905T091054_C001 Ocean Range Averaging Status 2_20180905T082140_4_20180905T091054_C001 Ocean Range Averaging Status	or more records. a The Ocean and Ice Range Averaging Status Flags have been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. a The Ocean and Ice Range Averaging Status Flags have been set for one or more records. The Ocean and Ice Range Averaging Status Flags have been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean and Ice Range Averaging Status Flag has been set for one or more records. The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T064203_20180905T064203_C001 Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20180905T064203_20180905T073140_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T073140_20180905T082117_C001 Ocean Range Averaging Status The Ocean and lce Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T082117_20180905T091054_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T091054_20180905T091054_C001 Ocean Range Averaging Status The Ocean and lce Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T1091054_20180905T100300_C001 Range Averaging Status The Ocean and lce Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T100300_20180905T105007_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T105007_C001 Ocean Range Averaging Status The Ocean and lce Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001 Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more re	DP_2_20180905T064203_20180905T073140_C001 DP_2_20180905T073140_20180905T082117_C001 DP_2_20180905T082117_20180905T091054_C001 DP_2_20180905T091054_20180905T100030_C001 DP_2_20180905T100030_20180905T105007_C001	2201809051055226_201809051064203_C001 Range Averaging Status 220180905T064203_20180905T073140_C001 Ocean Range Averaging Status 220180905T073140_20180905T082117_C001 Ocean Range Averaging Status 220180905T082117_20180905T091054_C001 Ocean Range Averaging Status 220180905T082117_20180905T091054_C001 Ocean Range Averaging Status 2_20180905T082104_20180905T091054_C001 Ocean Range Averaging Status	or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean and Ice Range Averaging Status Flags have been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean and Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T073140_20180905T073140_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOP_2_20180905T073140_20180905T082117_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or o	DP_220180905T073140_20180905T082117_C001 DP_220180905T082117_20180905T091054_C001 DP_220180905T091054_20180905T100030_C001 DP_220180905T100030_20180905T105007_C001		records. The Ocean and Ice Range Averaging Status Flags have been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T082117_20180905T091054_C001 Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20180905T082117_20180905T091054_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T091054_20180905T100030_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_20180905T100030_20180905T105007_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001 Ocean Range Averaging Status, Ice 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_20180905T105007_20180905T113944_C001 Ocean Range Averaging Status, Ice 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_20180905T113944_20180905T113944_2011 Ocean Range Averaging Status The Ocean Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T113944_20180905T122921_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	DP_220180905T082117_20180905T091054_C001 DP_220180905T091054_20180905T100030_C001 DP_220180905T100030_20180905T105007_C001	201809051073140_201809051082117_C001 Range Averaging Status _2_20180905T082117_20180905T091054_C001 Ocean Range Averaging Status _2_20180905T0820104_20180905T091054_C001 Ocean Range Averaging Status	or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean and Ice Range Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_20180905T091054_20180905T100030_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOP_2_20180905T091054_20180905T100030_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or or more records. CS_OFFL_SIR_IOP_2_20180905T100030_20180905T105007_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T113944_20180905T113944_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flags have been set for one or more records.	DP_220180905T091054_20180905T100030_C001 DP_220180905T100030_20180905T105007_C001	2 20180905T091054 20180905T100030 C001 Ocean Range Averaging Status, Ice	records. The Ocean and Ice Range Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_2_20180905T105007_20180905T105007_C001 Range Averaging Status or more records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T105007_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T105007_20180905T113944_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_20180905T113944_20180905T113944_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records.	DP_220180905T100030_20180905T105007_C001		
CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOP_2_20180905T105007_20180905T113944_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or more records. CS_OFFL_SIR_IOP_2_20180905T113944_20180905T113944_2001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for or more records.		Interinge Averaging Status	or more records.
CS_OFFL_SIR_IOP_2_201809051105007_201809051113944_C001 Range Averaging Status or more records. The Ocean Range Averaging Status Flag has been set for one or more)P 2 20180905T105007 20180905T113944 C001	2_20180905T100030_20180905T105007_C001 Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	<u></u>		5 5 5 F
)P_220180905T113944_20180905T122921_C001	2_20180905T113944_20180905T122921_C001 Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T122921_20180905T131857_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.)P_220180905T122921_20180905T131857_C001	2_20180905T122921_20180905T131857_C001 Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T131857_20180905T140834_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	P_220180905T131857_20180905T140834_C001	_220180905T131857_20180905T140834_C001 Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T140834_20180905T145811_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.)P_220180905T140834_20180905T145811_C001		5 5 5 F
CS_OFFL_SIR_IOP_2_20180905T145811_20180905T154748_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.	P_220180905T145811_20180905T154748_C001		
CS_OFFL_SIR_IOP_2_20180905T154748_20180905T163724_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.)P_220180905T154748_20180905T163724_C001		
CS_OFFL_SIR_IOP_2_20180905T163724_20180905T172701_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.	P_220180905T163724_20180905T172701_C001	2 201809051163724 201809051172701 (2001	0 0 0
CS_OFFL_SIR_IOP_2_20180905T172701_20180905T181638_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.)P_220180905T172701_20180905T181638_C001		
CS_OFFL_SIR_IOP_2_20180905T181638_20180905T190615_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.	P_220180905T181638_20180905T190615_C001		
CS_OFFL_SIR_IOP_2_20180905T190615_20180905T195552_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	P_220180905T190615_20180905T195552_C001	2_20180905T190615_20180905T195552_C001 Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T195552_20180905T204529_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.	P_220180905T195552_20180905T204529_C001		0 0 0
CS_OFFL_SIR_IOP_2_20180905T204529_20180905T213505_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.)P_220180905T204529_20180905T213505_C001	2 201809051204529 201809051213505 (2001	5 5 5 F
CS_OFFL_SIR_IOP_2_20180905T213505_20180905T222442_C001 Ocean Range Averaging Status, Ice Range Averaging Status Flags have been set for control or more records.	P_220180905T213505_20180905T222442_C001		
CS_OFFL_SIR_IOP_2_20180905T222442_20180905T231419_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.)P_220180905T222442_20180905T231419_C001	2_20180905T222442_20180905T231419_C001 Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T231419_20180906T000356_C002 Ocean Range Averaging Status, Ice Range Averaging Status Corr 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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180904T231532_20180905T000509_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180905T000509_20180905T005445_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_220180905T005445_20180905T014422_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_2_20180905T014422_20180905T023359_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_20180905T023359_20180905T032336_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_2_20180905T032336_20180905T041313_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_2_20180905T041313_20180905T050249_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_220180905T050249_20180905T055226_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_20180905T055226_20180905T064203_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_2_20180905T064203_20180905T073140_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_220180905T073140_20180905T082117_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_2_20180905T082117_20180905T091054_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_220180905T091054_20180905T100030_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_220180905T100030_20180905T105007_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_20180905T105007_20180905T113944_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_220180905T113944_20180905T122921_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_220180905T122921_20180905T131857_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_220180905T131857_20180905T140834_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_220180905T140834_20180905T145811_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_220180905T145811_20180905T154748_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_220180905T154748_20180905T163724_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_220180905T163724_20180905T172701_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_220180905T172701_20180905T181638_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_220180905T181638_20180905T190615_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_220180905T190615_20180905T195552_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_220180905T195552_20180905T204529_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_220180905T204529_20180905T213505_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_220180905T213505_20180905T222442_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_220180905T222442_20180905T231419_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_220180905T231419_20180906T000356_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.

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_IOP_2_201809057005445_201809057014422_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180905T014422_20180905T023359_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T032336_20180905T032336_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T032336_20180905T041313_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T050249_0180905T050249_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T050249_0180905T050249_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T050249_0180905T050249_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T064203_0180905T064203_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T064203_0180905T03140_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T010030_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T105007_0010500710030_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180905T113041_C001Ocean Retracking Quality FlagThe Ocean Retracking Qualit	CS_OFFL_SIR_IOP_220180905T000509_20180905T005445_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_JOP_2_20180005T032336_20180005T032336_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T032336_20180005T050249_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T050249_20180005T050249_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T050249_20180005T050240_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T050226_20180005T050226_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T050226_20180005T054203_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T064203_20180005T064203_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T003140_20180005T063117_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T0030_C01 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T10030_20180905T100507_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T113044_20180905T10507_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T113044_2018005T10507_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T113044_2018005T131857_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_JOP_2_20180005T11	CS_OFFL_SIR_IOP_220180905T005445_20180905T014422_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_220180905T181638_20180905T190615_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180905T190615_20180905T195552_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180905T195552_20180905T204529_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180905T204529_20180905T213505_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180905T213505_20180905T222442_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_220180905T231419_20180906T000356_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.