

IDEAS+ Daily Report for IOP data:

24/03/2018

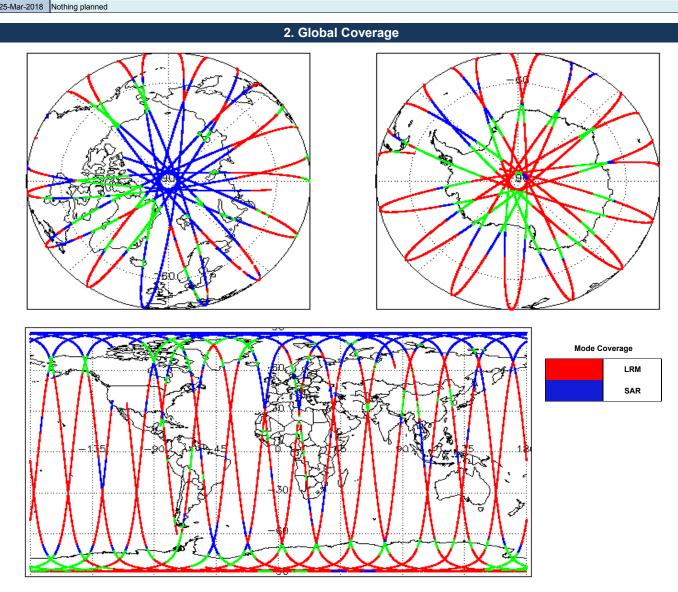


1. Overview					
Check L1 & L2 P2					
Report Production:	26-Mar-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal	
		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal	
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal	
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal	
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	See Section 5.2	Nominal	
		Auxiliary Data File Usage Check	Nominal	Nominal	
		Auxiliary Correction Error Check	Nominal	Nominal	
		Measurement Confidence Data Check	See Section 4.6	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

23-Mar-2018 SIRAL unavailability on 23-Mar-2018 from 07:35:19 to 09:24:55 due to a collision avoidance manoeuvre, and from 12:33:00 to 17:37:58 due to a planned orbit manoeuvre. 24-Mar-2018 None

25-Mar-2018



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

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the va Number of products with errors: 0 4.4 L1B Auxiliary Correction Error Check	lidity of Auxiliary Data Files is correct.
4 1 1B Auxiliary Correction Error Check	
CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any proble	ems 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 measurement record. The bit value of this flag indicates a	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 in	nvestigated 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 record. The bit value of this flag indicates any problem	
	ms when set.
	ms when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.	ms when set.
.oss of Echo Flag: This flag is currently set for products over land, but this is to be expected. lumber of products with errors: 17	Description
Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. Number of products with errors: 17 Product Test Failed	
Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. Number of products with errors: 17 Product Test Failed CS_OFFL_SIR_IOPM1B_20180324T062405_20180324T062851_C001 Loss of Echo	Description
Coss of Echo Flag: This flag is currently set for products over land, but this is to be expected. Number of products with errors: 17 Product Test Failed CS_OFFL_SIR_IOPM1B_20180324T062405_20180324T062851_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T110410_20180324T111543_C001 Loss of Echo	Description The tracking echo is missing for one or more records
Coss of Echo Flag: This flag is currently set for products over land, but this is to be expected. Number of products with errors: 17 Product Test Failed CS_OFFL_SIR_IOPM1B_20180324T062405_20180324T062851_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T110410_20180324T111543_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T113516_20180324T113538_C001 Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Coss of Echo Flag: This flag is currently set for products over land, but this is to be expected. Number of products with errors: 17 Product Test Failed CS_OFFL_SIR_IOPM1B_20180324T062405_20180324T062851_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T110410_20180324T111543_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T113516_20180324T113538_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T1155618_20180324T163024_C001 Loss of Echo	Description 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
Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. Number of products with errors: 17 Product Test Failed CS_OFFL_SIR_IOPM1B_20180324T062405_20180324T062851_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T110410_20180324T111543_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T113516_20180324T113538_C001 Loss of Echo CS_OFFL_SIR_IOPM1B_20180324T155618_20180324T163024_C001 Loss of Echo	Description 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

CS OFFL SIR IOPN1B 20180324T082101 20180324T082200 C001

CS_OFFL_SIR_IOPN1B_20180324T095859_20180324T100114_C001

CS_OFFL_SIR_IOPN1B_20180324T123500_20180324T123700_C001

CS_OFFL_SIR_IOPN1B_20180324T200013_20180324T200430_C001

CS_OFFL_SIR_IOPN1B_20180324T214159_20180324T214427_C001

CS_OFFL_SIR_IOPR1B_20180324T005130_20180324T005233_C001

CS_OFFL_SIR_IOPR1B_20180324T045512_20180324T045645_C001

CS_OFFL_SIR_IOPR1B_20180324T063805_20180324T063959_C001

CS OFFL SIR IOPR1B 20180324T150322 20180324T150804 C001

CS_OFFL_SIR_IOPR1B_20180324T232349_20180324T232623_C001

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

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

Loss of Echo

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors:
0

5.2 L2 Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and SPH in order	er to identify any inconsistencies and/or errors raised by the ground-segment processing chain.				
Number of products with errors: 1					
Product	Test Failed				
CS_OFFL_SIR_IOPR_2_20180324T151333_20180324T151409_C001	Percentage of processing errors detected greater than minimum acceptable threshold.				
5.3 L2 Auxiliary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-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					
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.

0

Product CS_OFFL_SIR_IOPM_2_20180324T002412_20180324T005130_C001 CS OFFL SIR IOPM 2 20180324T005639 20180324T010129 C001 CS_OFFL_SIR_IOPM_2_20180324T010417_20180324T013028_C001 CS OFFL SIR IOPM 2 20180324T020306 20180324T021300 C001 CS OFFL SIR IOPM 2 20180324T021838 20180324T023040 C001 CS_OFFL_SIR_IOPM_2_20180324T023559_20180324T024157_C001 CS OFFL SIR IOPM_2_20180324T024326_20180324T031227_C001 CS_OFFL_SIR_IOPM_2_20180324T031958_20180324T032154_C001 CS_OFFL_SIR_IOPM_2_20180324T033445_20180324T040940_C001 CS OFFL SIR IOPM 2 20180324T041507 20180324T042028 C001 CS_OFFL_SIR_IOPM_2_20180324T042159_20180324T042557_C001 CS_OFFL_SIR_IOPM_2_20180324T045815_20180324T050057_C001 CS OFFL SIR IOPM 2 20180324T050112 20180324T050211 C001 CS_OFFL_SIR_IOPM_2_20180324T051438_20180324T052309_C001 CS OFFL SIR IOPM 2 20180324T052554 20180324T054858 C001 CS_OFFL_SIR_IOPM_2_20180324T055358_20180324T055509_C001 CS_OFFL_SIR_IOPM_2_20180324T055516_20180324T055922_C001 CS OFFL SIR IOPM 2 20180324T060057 20180324T061429 C001 CS_OFFL_SIR_IOPM_2_20180324T061617_20180324T062221_C001 CS OFFL SIR IOPM 2 20180324T062405 20180324T062851 C001 CS_OFFL_SIR_IOPM_2_20180324T065322_20180324T072653_C001 CS_OFFL_SIR_IOPM_2_20180324T072904_20180324T073407_C001 CS_OFFL_SIR_IOPM_2_20180324T073427_20180324T073735_C001 CS OFFL SIR IOPM 2 20180324T074016 20180324T074214 C001 CS_OFFL_SIR_IOPM_2_20180324T074508_20180324T081557_C001 CS_OFFL_SIR_IOPM_2_20180324T083539_20180324T084350_C001 CS OFFL SIR IOPM 2 20180324T084611 20180324T090616 C001 CS_OFFL_SIR_IOPM_2_20180324T090756_20180324T091305_C001 CS_OFFL_SIR_IOPM_2_20180324T091343_20180324T091511_C001 CS OFFL SIR IOPM 2 20180324T092251 20180324T093244 C001 CS_OFFL_SIR_IOPM_2_20180324T093903_20180324T095035_C001 CS OFFL SIR IOPM 2 20180324T101723 20180324T102849 C001 CS OFFL SIR IOPM 2 20180324T103029 20180324T104518 C001 CS_OFFL_SIR_IOPM_2_20180324T104715_20180324T105215_C001 CS OFFL SIR IOPM 2 20180324T105256 20180324T105359 C001 CS OFFL SIR IOPM 2 20180324T110054 20180324T110258 C001 CS_OFFL_SIR_IOPM_2_20180324T110410_20180324T111543_C001 CS OFFL SIR IOPM 2 20180324T111554 20180324T112241 C001 CS_OFFL_SIR_IOPM_2_20180324T112525_20180324T113225_C001 CS_OFFL_SIR_IOPM_2_20180324T120128_20180324T122441_C001 CS OFFL SIR IOPM 2 20180324T122753 20180324T123132 C001 CS OFFL SIR IOPM 2 20180324T123154 20180324T123500 C001 CS_OFFL_SIR_IOPM_2_20180324T123734_20180324T130415_C001 CS_OFFL_SIR_IOPM_2_20180324T133750_20180324T140359_C001 CS_OFFL_SIR_IOPM_2_20180324T140535_20180324T141046_C001 CS_OFFL_SIR_IOPM_2_20180324T141658_20180324T142851_C001 CS_OFFL_SIR_IOPM_2_20180324T143430_20180324T145127_C001 CS_OFFL_SIR_IOPM_2_20180324T151859_20180324T152051_C001 CS OFFL SIR IOPM 2 20180324T153725 20180324T154357 C001 CS_OFFL_SIR_IOPM_2_20180324T155618_20180324T163024_C001 CS OFFL SIR IOPM 2 20180324T164413 20180324T164507 C001

Test Failed 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 Ice 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 Ocean Range Averaging Status Ice 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 Ocean Range Averaging Status Ice Range Averaging Status Ice 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 Description 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 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 ecords 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 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 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 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 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 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 ecords 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 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 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

CS_OFFL_SIR_IOPM_2_20180324T170133_20180324T172326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180324T172501_20180324T173012_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T173529_20180324T181016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T182418_20180324T182434_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T183448_20180324T183929_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T184010_20180324T185928_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T190025_20180324T190234_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T191611_20180324T194556_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T200510_20180324T202352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T202428_20180324T203737_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T204625_20180324T204822_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T204954_20180324T205325_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T205500_20180324T211048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T211250_20180324T212212_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T214020_20180324T214158_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T214526_20180324T214644_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T214927_20180324T220128_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T221748_20180324T221851_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T222447_20180324T222747_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T222754_20180324T223226_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T223415_20180324T224917_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T232746_20180324T233335_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T233342_20180324T233456_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T024157_20180324T024326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T073735_20180324T073827_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T090616_20180324T090756_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T110258_20180324T110409_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T123148_20180324T123154_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T140400_20180324T140535_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T150253_20180324T150322_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180324T163332_20180324T163334_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180324T190235_20180324T190400_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180324T232300_20180324T232328_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180324T232349_20180324T232623_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. 80

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180324T002412_20180324T005130_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_20180324T005639_20180324T010129_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T010417_20180324T013028_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_20180324T020306_20180324T021300_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_20180324T021838_20180324T023040_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_20180324T023559_20180324T024157_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T024326_20180324T031227_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_20180324T031958_20180324T032154_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_20180324T033445_20180324T040940_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_20180324T041507_20180324T042028_C001 CS OFFL SIR IOPM 2 20180324T042159 20180324T042557 C001 CS_OFFL_SIR_IOPM_2_20180324T045815_20180324T050057_C001 CS_OFFL_SIR_IOPM_2_20180324T051438_20180324T052309_C001 CS OFFL SIR IOPM 2 20180324T052554 20180324T054858 C001 CS_OFFL_SIR_IOPM_2_20180324T055358_20180324T055509_C001 CS OFFL SIR IOPM 2 20180324T060057 20180324T061429 C001 CS OFFL SIR IOPM 2 20180324T061617 20180324T062221 C001 CS_OFFL_SIR_IOPM_2_20180324T062405_20180324T062851_C001 CS_OFFL_SIR_IOPM_2_20180324T065322_20180324T072653_C001 CS OFFL SIR IOPM 2 20180324T072904 20180324T073407 C001 CS_OFFL_SIR_IOPM_2_20180324T073427_20180324T073735_C001 CS OFFL SIR IOPM 2 20180324T074016 20180324T074214 C001 CS_OFFL_SIR_IOPM_2_20180324T074508_20180324T081557_C001 CS_OFFL_SIR_IOPM_2_20180324T083539_20180324T084350_C001 CS OFFL SIR IOPM 2 20180324T084611 20180324T090616 C001 CS_OFFL_SIR_IOPM_2_20180324T090756_20180324T091305_C001 CS_OFFL_SIR_IOPM_2_20180324T091343_20180324T091511_C001 CS_OFFL_SIR_IOPM_2_20180324T092251_20180324T093244_C001 CS_OFFL_SIR_IOPM_2_20180324T093903_20180324T095035_C001 CS_OFFL_SIR_IOPM_2_20180324T103029_20180324T104518_C001 CS OFFL SIR IOPM 2 20180324T104715 20180324T105215 C001 CS_OFFL_SIR_IOPM_2_20180324T105256_20180324T105359_C001 CS OFFL SIR IOPM 2 20180324T110054 20180324T110258 C001 CS OFFL SIR IOPM 2 20180324T110410 20180324T111543 C001 CS_OFFL_SIR_IOPM_2_20180324T111554_20180324T112241_C001 CS_OFFL_SIR_IOPM_2_20180324T112525_20180324T113225_C001 CS_OFFL_SIR_IOPM_2_20180324T120128_20180324T122441_C001 CS_OFFL_SIR_IOPM_2_20180324T122753_20180324T123132_C001 CS OFFL SIR IOPM 2 20180324T123154 20180324T123500 C001 CS_OFFL_SIR_IOPM_2_20180324T123734_20180324T130415_C001 CS_OFFL_SIR_IOPM_2_20180324T133750_20180324T140359_C001 CS OFFL SIR IOPM 2 20180324T140535 20180324T141046 C001 CS_OFFL_SIR_IOPM_2_20180324T141053_20180324T141420_C001 CS_OFFL_SIR_IOPM_2_20180324T141658_20180324T142851_C001 CS OFFL SIR IOPM 2 20180324T143430 20180324T145127 C001 CS_OFFL_SIR_IOPM_2_20180324T151859_20180324T152051_C001 CS OFFL SIR IOPM 2 20180324T153725 20180324T154357 C001 CS OFFL SIR IOPM 2 20180324T154535 20180324T155119 C001 CS_OFFL_SIR_IOPM_2_20180324T155618_20180324T163024_C001 CS_OFFL_SIR_IOPM_2_20180324T164413_20180324T164507_C001 CS OFFL SIR IOPM 2 20180324T170133 20180324T172326 C001 CS_OFFL_SIR_IOPM_2_20180324T172501_20180324T173012_C001 CS OFFL SIR IOPM 2 20180324T173529 20180324T181016 C001 CS_OFFL_SIR_IOPM_2_20180324T184010_20180324T185928_C001 CS_OFFL_SIR_IOPM_2_20180324T190025_20180324T190234_C001 CS OFFL SIR IOPM 2 20180324T191611 20180324T194556 C001 CS_OFFL_SIR_IOPM_2_20180324T200510_20180324T202352_C001 CS_OFFL_SIR_IOPM_2_20180324T202428_20180324T203737_C001 CS OFFL SIR IOPM 2 20180324T204625 20180324T204822 C001 CS_OFFL_SIR_IOPM_2_20180324T204954_20180324T205325_C001 Ice Backscatter Averaging Status

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

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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CS_OFFL_SIR_IOPM_2_20180324T205500_20180324T211048_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_20180324T211250_20180324T212212_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_20180324T214020_20180324T214158_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T214526_20180324T214644_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_20180324T214927_20180324T220128_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_20180324T221748_20180324T221851_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_20180324T222447_20180324T222747_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T222754_20180324T223226_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180324T223415_20180324T224917_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_20180324T233342_20180324T233456_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_20180324T024157_20180324T024326_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_20180324T073735_20180324T073827_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_20180324T090616_20180324T090756_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T123148_20180324T123154_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T140400_20180324T140535_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180324T150253_20180324T150322_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_20180324T163332_20180324T163334_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_20180324T190235_20180324T190400_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_20180324T232300_20180324T232328_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_20180324T232349_20180324T232623_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. 58

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

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:

0

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. 28

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180324T000740_20180324T005716_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180324T005716_20180324T014654_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_220180324T014654_20180324T023630_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T023630_20180324T032607_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_220180324T032607_20180324T041543_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_220180324T041543_20180324T050521_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_220180324T050521_20180324T055457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T055457_20180324T064434_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_220180324T064434_20180324T073410_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_220180324T073410_20180324T082348_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T082348_20180324T091324_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_220180324T091324_20180324T100301_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T100301_20180324T105237_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_220180324T105237_20180324T114215_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_220180324T114215_20180324T123151_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180324T123151_20180324T132129_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T132129_20180324T141105_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_220180324T141105_20180324T150042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T150042_20180324T155018_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_220180324T155018_20180324T163956_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_220180324T163956_20180324T172932_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_220180324T172932_20180324T181909_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180324T181909_20180324T190845_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T190845_20180324T195823_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T195823_20180324T204759_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_220180324T204759_20180324T213736_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_220180324T213736_20180324T222712_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T222712_20180324T231650_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 28

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180324T000740_20180324T005716_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180324T005716_20180324T014654_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_220180324T014654_20180324T023630_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_220180324T023630_20180324T032607_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_220180324T032607_20180324T041543_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_220180324T041543_20180324T050521_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_220180324T050521_20180324T055457_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_220180324T055457_20180324T064434_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_220180324T064434_20180324T073410_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_220180324T073410_20180324T082348_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_220180324T082348_20180324T091324_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_220180324T091324_20180324T100301_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_220180324T100301_20180324T105237_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_220180324T105237_20180324T114215_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_220180324T114215_20180324T123151_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180324T123151_20180324T132129_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_220180324T132129_20180324T141105_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_220180324T141105_20180324T150042_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_220180324T150042_20180324T155018_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_220180324T155018_20180324T163956_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_220180324T163956_20180324T172932_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_220180324T172932_20180324T181909_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180324T181909_20180324T190845_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_220180324T190845_20180324T195823_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_220180324T195823_20180324T204759_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_220180324T204759_20180324T213736_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_220180324T213736_20180324T222712_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_220180324T222712_20180324T231650_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.

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.

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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.

ļ	Number o	of products	s with	errors:	

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180323T231802_20180324T000740_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T000740_20180324T005716_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180324T005716_20180324T014654_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T014654_20180324T023630_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T023630_20180324T032607_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T032607_20180324T041543_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T041543_20180324T050521_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T050521_20180324T055457_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T055457_20180324T064434_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T064434_20180324T073410_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T073410_20180324T082348_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T082348_20180324T091324_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T091324_20180324T100301_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T100301_20180324T105237_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T105237_20180324T114215_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T114215_20180324T123151_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T123151_20180324T132129_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T150042_20180324T155018_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T155018_20180324T163956_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T172932_20180324T181909_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T181909_20180324T190845_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T190845_20180324T195823_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T195823_20180324T204759_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T204759_20180324T213736_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T213736_20180324T222712_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180324T222712_20180324T231650_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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