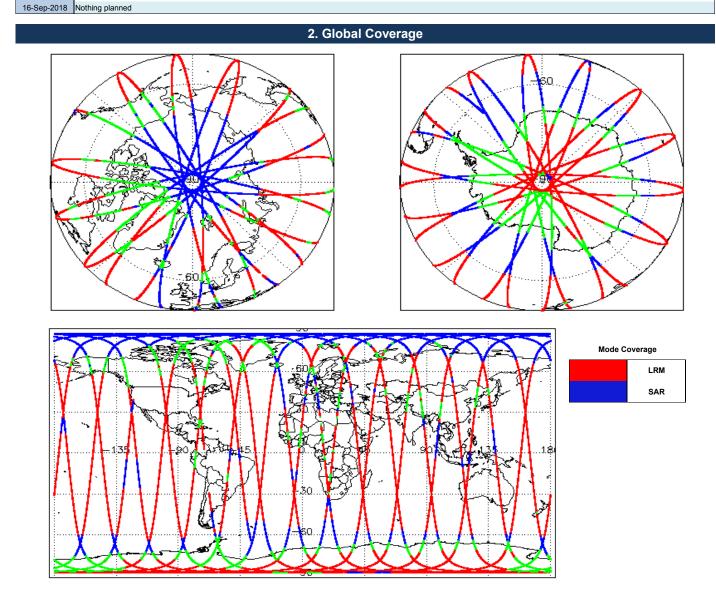


# IDEAS+ Daily Report for IOP data:

# <u>15/09/2018</u>

ort Production:	17-Sep-2018	Check	L1 & L2	P2P
Jon Froduction.	17-3ep-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used: CrvoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal	
Tocessor Useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	ed: Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Useu.		Product Header Analysis	See Section 5.2	Nominal
1		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

# Mission / Instrument News 14-Sep-2018 None 15-Sep-2018 None



# 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

## 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:
0

#### 4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

#### 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 any problems when set.

4

Number of products with errors:

## 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 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180915T020337_20180915T021050_C001		There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180915T170259_20180915T170613_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180915T184413_20180915T184549_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180915T195907_20180915T200033_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

## 4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180915T100111_20180915T103213_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180915T154211_20180915T161811_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T003556_20180915T004058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T013340_20180915T013951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T021533_20180915T021943_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T054400_20180915T054438_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T073253_20180915T073500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T122333_20180915T122534_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T153721_20180915T154211_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T211743_20180915T212151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180915T220736_20180915T221100_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180915T071430_20180915T072049_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180915T085215_20180915T085948_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180915T172912_20180915T173108_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

## 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 1

Product	Test Failed
CS_OFFL_SIR_IOPR_2_20180915T024527_20180915T024533_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:

#### 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).

4

0

Number of products with errors:

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180915T020337_20180915T021050_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180915T170259_20180915T170613_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

CS_OFFL_SIR_IOPM_2_20180915T184413_20180915T184549_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180915T195907_20180915T200033_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Range Measurement Check

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

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 82

Number of products with errors:

Deschust	Test Folled	Description
Product CS_OFFL_SIR_IOPM_2_20180915T000401_20180915T001623_C001	Test Failed Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T001828_20180915T003556_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T005759_20180915T010730_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T010932_20180915T012350_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T012655_20180915T013149_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T014039_20180915T014210_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T015751_20180915T020242_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T020337_20180915T021050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T021213_20180915T021532_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T024729_20180915T030234_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T030640_20180915T031116_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T031137_20180915T031307_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T031853_20180915T035210_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T041719_20180915T044139_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T044512_20180915T045017_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T045036_20180915T045400_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T045741_20180915T050829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T051404_20180915T052359_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T052417_20180915T052859_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T055510_20180915T062105_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T062453_20180915T062930_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T062933_20180915T063306_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T063811_20180915T071050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T072231_20180915T072602_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T075457_20180915T075743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T080435_20180915T080956_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T081707_20180915T083804_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T084050_20180915T085214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T090159_20180915T090615_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T092212_20180915T092659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T092847_20180915T093841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T094453_20180915T094855_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T095607_20180915T100102_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T100111_20180915T103213_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T104623_20180915T111634_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T113106_20180915T113229_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T113555_20180915T115058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T115703_20180915T120408_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T122003_20180915T122333_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T122534_20180915T124107_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T124726_20180915T125803_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T130455_20180915T130714_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
		records.

CS_OFFL_SIR_IOPM_2_20180915T130749_20180915T131210_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T131500_20180915T132850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T140725_20180915T141435_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T141557_20180915T142020_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T142402_20180915T143828_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T144243_20180915T145118_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T145451_20180915T151619_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T153032_20180915T153110_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T154211_20180915T161811_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T162156_20180915T162345_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T162443_20180915T162919_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T163430_20180915T170152_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T171025_20180915T171139_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T173108_20180915T174102_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T174640_20180915T175622_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T180400_20180915T180952_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T181319_20180915T183331_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T183334_20180915T183910_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T184849_20180915T185105_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T190230_20180915T193531_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T194306_20180915T194824_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T195502_20180915T195654_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T202558_20180915T203004_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T203828_20180915T203904_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T203925_20180915T203954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T204022_20180915T205111_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T205357_20180915T211516_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T212315_20180915T212721_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T213250_20180915T214227_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T214414_20180915T215029_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T215206_20180915T215649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T221901_20180915T225337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T225654_20180915T230206_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T230226_20180915T230517_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T231305_20180915T234341_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T234518_20180915T234805_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180915T234805_20180915T234901_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180915T021533_20180915T021943_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180915T211743_20180915T212151_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180915T044139_20180915T044356_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. 86

Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR IOPM 2 20180915T000401 20180915T001623 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20180915T001828 20180915T003556 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_011E_31K_10FM_2_201809131001020_201809131003330_0001	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20180915T005759 20180915T010730 C001		The SWH and Ocean Averaging Status Flags have been set for one or
C3_011E_31K_10FM_2_201009131003739_201009131010730_0001	Backscatter Averaging Status	more records.

CS\_OFFL\_SIR\_IOPM\_2\_20180915T010932\_20180915T012350\_C001 CS OFFL SIR IOPM 2 20180915T012655 20180915T013149 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T013224\_20180915T013340\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T014039\_20180915T014210\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T015751\_20180915T020242\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T020337\_20180915T021050\_C001 CS OFFL SIR IOPM 2 20180915T021213 20180915T021532 C001 CS OFFL SIR IOPM 2 20180915T024729 20180915T030234 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T030640\_20180915T031116\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T031137\_20180915T031307\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T031853\_20180915T035210\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T041719\_20180915T044139\_C001 CS OFFL SIR IOPM 2 20180915T044512 20180915T045017 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T045036\_20180915T045400\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T045741\_20180915T050829\_C001 CS OFFL SIR IOPM 2 20180915T051404 20180915T052359 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T052417\_20180915T052859\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T055510\_20180915T062105\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T062453\_20180915T062930\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T062933\_20180915T063306\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T063811\_20180915T071050\_C001 CS OFFL SIR IOPM 2 20180915T072231 20180915T072602 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T075457\_20180915T075743\_C001 CS OFFL SIR IOPM 2 20180915T080435 20180915T080956 C001 CS OFFL SIR IOPM 2 20180915T081707 20180915T083804 C001 CS OFFL SIR IOPM 2 20180915T084050 20180915T085214 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T090159\_20180915T090615\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T092212\_20180915T092659\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T092847\_20180915T093841\_C001 CS OFFL SIR IOPM 2 20180915T094453 20180915T094855 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T095607\_20180915T100102\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T100111\_20180915T103213\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T104623\_20180915T111634\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T112608\_20180915T112801\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T113106\_20180915T113229\_C001 CS OFFL SIR IOPM 2 20180915T113555 20180915T115058 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T115107\_20180915T115222\_C001 CS OFFL SIR IOPM 2 20180915T115703 20180915T120408 C001 CS OFFL SIR IOPM 2 20180915T122003 20180915T122333 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T122534\_20180915T124107\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T124726\_20180915T125803\_C001 CS OFFL SIR IOPM 2 20180915T130455 20180915T130714 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T130749\_20180915T131210\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T131500\_20180915T132850\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T133030\_20180915T134551\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T140046\_20180915T140145\_C001 CS OFFL SIR IOPM 2 20180915T140725 20180915T141435 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T141557\_20180915T142020\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T142402\_20180915T143828\_C001 CS OFFL SIR IOPM 2 20180915T144243 20180915T145118 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180915T145451\_20180915T151619\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status Ice 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 Ice 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 Ice 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 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 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

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean

Backscatter Averaging Status

Backscatter Averaging Status

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

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 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 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.

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

CS_OFFL_SIR_IOPM_2_20180915T153032_20180915T153110_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_20180915T154211_20180915T161811_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_20180915T162156_20180915T162345_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.					
CS_OFFL_SIR_IOPM_2_20180915T162443_20180915T162919_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.					
CS_OFFL_SIR_IOPM_2_20180915T163430_20180915T170152_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_20180915T171025_20180915T171139_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_20180915T173108_20180915T174102_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_20180915T174640_20180915T175622_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_20180915T180400_20180915T180952_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.					
CS_OFFL_SIR_IOPM_2_20180915T181319_20180915T183331_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_20180915T183334_20180915T183910_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_20180915T184849_20180915T185105_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_20180915T190230_20180915T193531_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_20180915T194306_20180915T194824_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.					
CS_OFFL_SIR_IOPM_2_20180915T195502_20180915T195654_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_20180915T202558_20180915T203004_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.					
CS_OFFL_SIR_IOPM_2_20180915T203828_20180915T203904_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or					
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or more records.					
CS_OFFL_SIR_IOPM_2_20180915T204022_20180915T205111_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or					
CS_OFFL_SIR_IOPM_2_20180915T205357_20180915T211516_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or					
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more					
CS_OFFL_SIR_IOPM_2_20180915T213250_20180915T214227_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or					
CS_OFFL_SIR_IOPM_2_20180915T214414_20180915T215029_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or					
CS_OFFL_SIR_IOPM_2_20180915T215206_20180915T215649_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or					
CS_OFFL_SIR_IOPM_2_20180915T221901_20180915T225337_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or					
CS_OFFL_SIR_IOPM_2_20180915T225654_20180915T230206_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more					
CS_OFFL_SIR_IOPM_2_20180915T230226_20180915T230517_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more					
CS OFFL SIR IOPM 2 20180915T231305 20180915T234341 C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or					
CS_OFFL_SIR_IOPM_2_20180915T234518_20180915T234805_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more					
CS_OFFL_SIR_IOPM_2_20180915T234805_20180915T234901_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more					
CS_OFFL_SIR_IOPN_2_20180915T021533_20180915T021943_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or					
CS_OFFL_SIR_IOF R_2_201809151021333_201809151021343_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or					
C3_0FFL_3IK_10FK_2_201009131044139_201009131044330_C001	Backscatter Averaging Status	more records.					
5.8 L2 Ocean Retracking Quality Check							
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measure	ement record. The bit value of this flag indi	cates 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	e number of products with this error flag set is given below.					
Number of products with errors: 64							
6. IOP L2 Pole-to-Pole Data Quality Check							
6.1 P2P Product Format Check							
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).							
Number of products with errors: 0							
6.2 P2P Product Header Analysis							
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.           Number of products with errors:         0							
6.3 P2P Auxiliary Data File Usage Check							
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.           Number of products with errors:         0							
6 4 P2P Auxiliany Correction Error Check							
6.4 P2P Auxiliary Correction Error Check							
For all products, the auxiliary corrections within the Geophysical Group are check Number of products with errors: 0							
6.5 P2P Measurement Confidence Data Check	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: 4				
Product	Test Failed	Description		
CS_OFFL_SIR_IOP_220180915T013210_20180915T022149_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		
CS_OFFL_SIR_IOP_220180915T162513_20180915T171451_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		
CS_OFFL_SIR_IOP_220180915T180426_20180915T185405_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		
CS_OFFL_SIR_IOP_220180915T194340_20180915T203318_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		

## 6.6 P2P Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 29

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180914T235257_20180915T004235_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T004235_20180915T013210_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_220180915T013210_20180915T022149_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T022149_20180915T031124_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_220180915T031124_20180915T040102_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_220180915T040102_20180915T045038_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T045038_20180915T054016_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_220180915T054016_20180915T062951_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_220180915T062951_20180915T071930_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_220180915T071930_20180915T080905_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_220180915T080905_20180915T085843_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T085843_20180915T094818_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T094818_20180915T103757_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T103757_20180915T112732_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T112732_20180915T121710_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_220180915T121710_20180915T130645_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_220180915T130645_20180915T135624_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_220180915T135624_20180915T144559_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_220180915T144559_20180915T153537_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_220180915T153537_20180915T162513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T162513_20180915T171451_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_220180915T171451_20180915T180426_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T180426_20180915T185405_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_220180915T185405_20180915T194340_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T194340_20180915T203318_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_220180915T203318_20180915T212253_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_220180915T212253_20180915T221232_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_220180915T221232_20180915T230207_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_220180915T230207_20180915T235145_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.

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Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR IOP 2 201809141235257 201809151004235 C002		The SWH and Ocean Averaging Status Flags have been set for one or more records.

D2_04L_SR_UOP_2_Enteronistorate_0.001     Status Antarage Status     Instruction Antarage Status       D2_04L_SR_UOP_2_Enteronistorate_0.0010     Status Antarage Status     Instruction Antarage Status Antarage Status       D2_04L_SR_UOP_2_Enteronistorates_0.0011     Status Antarage Status     Instruction Antarage Status Antarage Status       D2_04L_SR_UOP_2_Enteronistorates_0.0011     Status Antarage Status     Instruction Antarage Status Antarage Status Antarage Status       D2_04L_SR_UOP_2_Enteronistorates_0.0011     Status Antarage Status Antarage Status Antarage	CS_OFFL_SIR_IOP_220180915T004235_20180915T013210_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.
CB_CPFL_SRUCP201001110214_201001110214_2010011010214_2000 CB_CPFL_SRUCP2010001101024_201001101024112_000 CB_CPFL_SRUCP201000110102412_00100110102412_000 CB_CPFL_SRUCP20100011010241_20100110102412_0010 CB_CPFL_SRUCP_2_0010011010241_20100110102412_0010 CB_CPFL_SRUCP_2_0010011010241_20100110102412_0010 CB_CPFL_SRUCP_2_0010011010241_20100110102412_0010 CB_CPFL_SRUCP_2_0010011010241_20100110102412_0010 CB_CPFL_SRUCP_2_0010011010241_20100110102412_0010 CB_CPFL_SRUCP_2_0010011010241_20100110102412_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_2010011010241_001 CB_CPFL_SRUCP_2_0010011010241_2010011010241_001 CB_CPFL_SRUCP_2_0010011010241_2010011010241_001 CB_CPFL_SRUCP_2_0010011010241_2010011010241_001 CB_CPFL_SRUCP_2_0010011010241_2010011010241_001 CB_CPFL_SRUCP_2_0010011010241_001 CB_CPFL_SRUCP_2_0010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_0010 CB_CPFL_SRUCP_2_0010011010241_0010 CB_CPFL_SRUCP_2_001 CB_CPFL_SRUC	CS_OFFL_SIR_IOP_220180915T013210_20180915T022149_C001	SWH Averaging Status, Ocean	
CE_OFT_SR_UP_2_D100015T00112_2010015T100402_C001 Exactancter Averaging Status, lee and the SWI Averaging Status, lee and the SWI Averaging Status, lee and the SWI Averaging Status, lee and the Averaging Status, lee a	CS_OFFL_SIR_IOP_220180915T022149_20180915T031124_C001	Backscatter Averaging Status, Ice	
C2, OFT, SRI, OP20190915704012_20190915704003_001 Beacadet Averaging State, Reg Inter Weights, State, Reg Inter Weights	CS_OFFL_SIR_IOP_220180915T031124_20180915T040102_C001	Backscatter Averaging Status, Ice	
C3_0FL_SR_UP_2_20180151704018_201801151704016_0011       Bedsacter Arrangg Status, to source and the strength Status Flags have been set for one or none records.         C3_0FTL_SIR_UP_2_201800157102575_2018015712732_0180157112732_018	CS_OFFL_SIR_IOP_220180915T040102_20180915T045038_C001	Backscatter Averaging Status, Ice	
C3, DFL_SIR_IOP_2_0018015106405_01501043       Badascater Averaging Status, to Bio Averaging Status, To Bi	CS_OFFL_SIR_IOP_220180915T045038_20180915T054016_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CB_OFFL_SIR_JOP_2_201809151102532_018091517071830_C001       Badasater Averaging Status, Coam         CB_OFFL_SIR_JOP_2_2018091517071830_0180915708590_C001       Badasater Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809151708590_0180915708594_0001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809157085943_0001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809157085943_0001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809157085943_0001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809157085943_01001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_20180915704616_001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_20180915710375_0160915710375_0001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809157112730_001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809157112730_0010       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809157112710_018001571120140_0001       SWH Averaging Status, Coam         CB_OFFL_SIR_JOP_2_20180915711270_018001571130645_0001       StatusAtter Averaging Status, Coam         CB_OFFL_SIR_JOP_2_20180915711270_018001571130645_0001       StatusAtter Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809151112710_01800157114550_0001       StatusAtter Averaging Status, Coam         CB_OFFL_SIR_JOP_2_201809151112710_0180157114550_0001       StatusAtter Averaging Status, Coam	CS_OFFL_SIR_IOP_220180915T054016_20180915T062951_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20160915T02900_20180915T030005_C001 Backscatter Averaging Status, local intermediated and the averaging Status Flags have been set for one or more records. SVH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscat	CS_OFFL_SIR_IOP_220180915T062951_20180915T071930_C001	Backscatter Averaging Status, Ice	
Cols_PPT_SIR_UP20180015108066_2018015108843_0001         Backsatter Averaging Status         more records.           CS_OFFL_SIR_UP_2_20180015T08843_0180015T03757_0001         SVM Averaging Status         The SVM Accessing the SVM and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T103757_20180015T112732_0001         SVM Averaging Status         The SVM and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T103757_20180015T112732_0001         SVM Averaging Status         The SVM and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T112732_0180015T112732_0001         SVM Averaging Status, Ocean Blacksatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T130045_01001         SVM Averaging Status, Ceen Blacksatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T130045_01001         SVM Averaging Status, Ceen Blacksatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T130045_0180015T136624_0001         SVM Averaging Status Flags have been set for one Blacksatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T136624_018015T136624_0001         SVM Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_UP_2_20180015T136624_018015T136624_0001         SVM Averaging Status, Flags have been set for one or more records.           CS_O	CS_OFFL_SIR_IOP_220180915T071930_20180915T080905_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_2018015T08543_2018015T103757_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20180015T103757_20180015T112732_C001 SWH Averaging Status, Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20180015T112732_0180015T112732_C001 SWH Averaging Status, Ice Backscatter Averaging Status, Ice CS_OFFL_SIR_IOP_2_20180015T130645_20180015T13664_C001 Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20180015T130645_20180015T13664_C001 Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20180015T13664_20180015T13664_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20180015T13664_20180015T13664_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20180015T13664_20180015T13664_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice CS_OFFL_SIR_IOP_2_20180015T13664_20180015T13664_C001 Backscatter Averaging Status, Ice CS_OFFL_SIR_IOP_2_20180015T13664_20180015T13664_C001 Backscatter Averaging Status, Ice Back	CS_OFFL_SIR_IOP_220180915T080905_20180915T085843_C001	Backscatter Averaging Status	
Composition         Composition         Backstatter Averaging Status         more records.           CS_OFFL_SIR_IOP_2_20180915T103757_20180915T112732_0001         SWH Averaging Status, Ceean Backstatter Averaging Status, Ceean Backs	CS_OFFL_SIR_IOP_220180915T085843_20180915T094818_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_UOP_2_20180915110577_201809151110577_201809151110577_201809151110577_201809151110577_201809151110577_201809151110577_2018091511271710_2018091511271710_2018091511271710_2018091511280645_20101       SWH Averaging Status, Cosen Backscatter Averaging Status, Ice SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_UOP_2_201809151120645_20101       Backscatter Averaging Status, Ice Supplement Status, Ice Backscatter Averaging Status, Ice Cose Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915110426_20180915119440	CS_OFFL_SIR_IOP_220180915T094818_20180915T103757_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180915T112732_20180915T121710_C001       Backscatter Averaging Status, lee         CS_OFFL_SIR_IOP_2_20180915T121710_20180915T130645_C001       Backscatter Averaging Status, lee         Backscatter Averaging Status, lee       Backscatter Averaging Status, lee         SWH Averaging Status, lee       Backscatter Averaging Status, lee         Backscatter Averaging Status, lee       Backscatter Averaging Status, lee         CS_OFFL_SIR_IOP_2_20180915T162513_20180915T1745213_20180915T17451_2001       SWH Averaging Status, Cean         Backscatter Averaging Status, Cean       Backscatter Averaging Status, Cean         Backscatter Averaging Status, Cean       Backscatter Averaging Status, Cean         Backscatter Averaging Status, Cean       Backscatter Averaging Sta	CS_OFFL_SIR_IOP_220180915T103757_20180915T112732_C001		
CS_OFFL_SIR_IOP_2_20180915T120645_20180915T130645_2001       Backscatter Averaging Status local       Interview, Ocean and Ice Averaging Status Plags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915T130645_20180915T135624_C001       Backscatter Averaging Status, Ice Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Aver	CS_OFFL_SIR_IOP_220180915T112732_20180915T121710_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180915T130645_20180915T135624_001       Backscatter Averaging Status, Ceean Ba	CS_OFFL_SIR_IOP_220180915T121710_20180915T130645_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180915T135624_20180915T144559_C001       Backscatter Averaging Status, lee Backscatter Averaging Status, lee Backsca	CS_OFFL_SIR_IOP_220180915T130645_20180915T135624_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180915T143537_C001       Backscatter Averaging Status, Ice Backscatter Averaging Status       Ine SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915T162513_20180915T162513_C001       SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice	CS_OFFL_SIR_IOP_220180915T135624_20180915T144559_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180915115353/_20180915T172451_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOP_2_20180915T162513_20180915T171451_C001       SWH Averaging Status, Ocean Backscatter Averaging Status       The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915T171451_20180915T180426_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_20180915T180426_20180915T180426_C001       Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Back	CS_OFFL_SIR_IOP_220180915T144559_20180915T153537_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20180915T162513_20180915T171451_C001Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice SWH Averaging Status, Ice Backscatter Averaging StatusThe SWH of Cean and Ice Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOP_2_20180915T171451_20180915T180426_20180915T180426_20180915T185405_C001SWH Averaging Status, Ice Backscatter Averaging Status, Ice<	CS_OFFL_SIR_IOP_220180915T153537_20180915T162513_C001	Backscatter Averaging Status	
CS_OFFL_SIR_IOP_220180915T171431_20180915T180426_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOP_220180915T180426_20180915T185405_C001       SWH 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_220180915T185405_20180915T194340_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_20180915T194340_20180915T203318_C001       SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backsca	CS_OFFL_SIR_IOP_220180915T162513_20180915T171451_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20180915T180426_20180915T185405_C001       Backscatter Averaging Status, Ice Backscatter Averaging Status       Interstep Status         CS_OFFL_SIR_IOP_2_20180915T185405_20180915T194340_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_20180915T194340_20180915T203318_C001       SWH Averaging Status, Ocean Backscatter Averaging Status       The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915T203318_20180915T212253_C001       Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backs	CS_OFFL_SIR_IOP_220180915T171451_20180915T180426_C001		
CS_OFFL_SIR_IOP_2_20180915T194340_20180915T203318_C001       Backscatter Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOP_2_20180915T194340_20180915T203318_C001       SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean       The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915T203318_20180915T212253_C001       SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averagin	CS_OFFL_SIR_IOP_220180915T180426_20180915T185405_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20180915T194340_20180915T203318_C001       Backscatter Averaging Status, Ice Backscatter Averaging Status Averaging Status, Ice Backscatter Averaging St	CS_OFFL_SIR_IOP_220180915T185405_20180915T194340_C001		
CS_OFFL_SIR_IOP_2_20180915T203318_20180915T212253_C001       Backscatter Averaging Status, Ice Backscatter Averaging Status       The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915T212253_20180915T221225_C001       Backscatter Averaging Status, Ice Backscatter Averaging Status       The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOP_2_20180915T221232_20180915T230207_C001       SWH Averaging Status, Ice Backscatter Averaging Status Averaging Status, Ice Backscatter Averaging Status, Ice Backscat	CS_OFFL_SIR_IOP_220180915T194340_20180915T203318_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180915T212253_20180915T221232_C001       Backscatter Averaging Status, loe Backsca	CS_OFFL_SIR_IOP_220180915T203318_20180915T212253_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180915T221232_20180915T230207_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20180915T230207_20180915T235145_C001 SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one or The SWH, Ocean and Ice Averaging Status Flags have been set for one or	CS_OFFL_SIR_IOP_220180915T212253_20180915T221232_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
	CS_OFFL_SIR_IOP_220180915T221232_20180915T230207_C001	Backscatter Averaging Status, Ice	
	CS_OFFL_SIR_IOP_220180915T230207_20180915T235145_C001		

# 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: 28					
Product	Test Failed	Description			
CS_OFFL_SIR_IOP_220180914T235257_20180915T004235_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.			
CS_OFFL_SIR_IOP_220180915T004235_20180915T013210_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.			
CS_OFFL_SIR_IOP_220180915T013210_20180915T022149_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.			
CS_OFFL_SIR_IOP_220180915T031124_20180915T040102_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.			
CS_OFFL_SIR_IOP_220180915T040102_20180915T045038_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.			
CS_OFFL_SIR_IOP_220180915T045038_20180915T054016_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.			

CS_OFFL_SIR_IOP_220180915T054016_20180915T062951_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T062951_20180915T071930_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T071930_20180915T080905_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T080905_20180915T085843_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T085843_20180915T094818_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T094818_20180915T103757_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T103757_20180915T112732_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T112732_20180915T121710_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T121710_20180915T130645_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T130645_20180915T135624_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T135624_20180915T144559_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T144559_20180915T153537_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T153537_20180915T162513_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T162513_20180915T171451_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T171451_20180915T180426_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T180426_20180915T185405_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T185405_20180915T194340_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T194340_20180915T203318_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T203318_20180915T212253_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T212253_20180915T221232_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T221232_20180915T230207_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180915T230207_20180915T235145_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.