



# 1. Overview

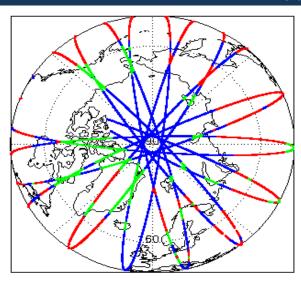
31-Jan-2018	
CryoSat Ocean Processor	
Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

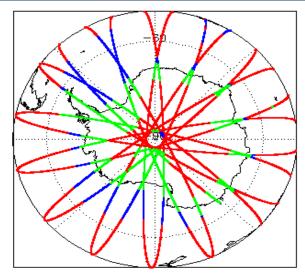
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6	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

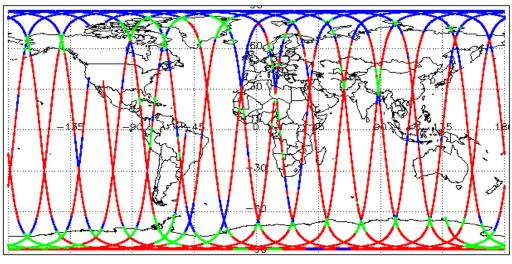
Mission / Instrument News		
28-Jan-2018	None	
29-Jan-2018	None	

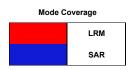
#### 29-Jan-2018 None 30-Jan-2018 Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 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:

0

### 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

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.

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 any problems when set.

Number of products with errors:

59

-	I=	1-
Product  CS OFFL SIR IOPR1B 20180129T001532 20180129T001608 C001	Test Failed  Attitude correction missing	Description The attitude has not been corrected
	•	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T003101_20180129T003105_C001	Attitude correction missing	
CS_OFFL_SIR_IOPR1B_20180129T004602_20180129T004741_C001  CS_OFFL_SIR_IOPR1B_20180129T010333_20180129T010414_C001	Attitude correction missing  Attitude correction missing	The attitude has not been corrected  The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_20180129T010932_20180129T010414_C001  CS_OFFL_SIR_IOPRIB_20180129T010932_20180129T011015_C001		The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T011101_20180129T0111013_C001	Attitude correction missing  Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_20180129T011101_20180129T011222_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T012443_20180129T012552_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T015707_20180129T015811_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180129T021022 20180129T021044 C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180129T024711 20180129T024759 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T030001_20180129T030215_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T030659_20180129T030909_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T033634_20180129T033745_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T042743_20180129T042913_C001	Attitude correction missing	The attitude has not been corrected  The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T042/43_20180129T042/43_20180129T051714 C001	•	
	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T052834_20180129T052840_C001  CS_OFFL_SIR_IOPR1B_20180129T060304_20180129T060501_C001	Attitude correction missing	The attitude has not been corrected.
	Attitude correction missing  Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T060841_20180129T061641_C001  CS_OFFL_SIR_IOPR1B_20180129T061758_20180129T061814_C001	Attitude correction missing  Attitude correction missing	The attitude has not been corrected  The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_201801291061738_201801291061814_C001  CS_OFFL_SIR_IOPR1B_201801291071336_201801291071614_C001	Attitude correction missing	The attitude has not been corrected
	, and the second	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T074018_20180129T074147_C001	Attitude correction missing	
CS_OFFL_SIR_IOPR1B_20180129T074537_20180129T074643_C001 CS_OFFL_SIR_IOPR1B_20180129T074721_20180129T075605_C001	Attitude correction missing  Attitude correction missing	The attitude has not been corrected  The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T075643_20180129T075656_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T075736_20180129T075839_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T080821_20180129T081107_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T083320_20180129T083548_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T003320_20180129T003340_C001  CS_OFFL_SIR_IOPR1B_20180129T092315_20180129T092457_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T092810_20180129T093558_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T101214_20180129T101225_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T101919_20180129T101924_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T101931_20180129T101938_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T102417_20180129T103017_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T110708_20180129T111251_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T111700_20180129T112030_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180129T115816 20180129T115823 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T115830_20180129T115836_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T122159_20180129T122411_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180129T123526 20180129T123726 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T123911_20180129T124000_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T124622_20180129T124915_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20180129T143042 20180129T143139 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T151011_20180129T151035_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T164911_20180129T164916_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T180708_20180129T180733_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T182843_20180129T182930_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T191915_20180129T192615_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T192752_20180129T192928_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T193130_20180129T193506_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T193744_20180129T194105_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T205519_20180129T205629_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T205800_20180129T210514_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T210944_20180129T211959_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T215948_20180129T220127_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_IOPR1B_20180129T223758_20180129T223852_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T224407_20180129T224521_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T224943_20180129T225021_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20180129T230853_20180129T230941_C001	Attitude correction missing	The attitude has not been corrected

#### 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180129T012552_20180129T013146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180129T060501_20180129T060550_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180129T011516_20180129T011730_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180129T013752_20180129T014145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180129T052706_20180129T052834_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180129T092457_20180129T092810_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180129T224521_20180129T224943_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180129T060841_20180129T061641_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180129T110708_20180129T111251_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180129T123526_20180129T123726_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180129T193744_20180129T194105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180129T205800_20180129T210514_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180129T232304_20180129T232902_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:

#### 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).

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:

### 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180129T000032_20180129T001532_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T002209_20180129T002426_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T002504_20180129T002923_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T003105_20180129T004602_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T004741_20180129T010219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T012552_20180129T013146_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T013308_20180129T013520_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T014145_20180129T015707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T015959_20180129T020829_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T021044_20180129T023329_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180129T031112_20180129T033634_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T033906_20180129T034059_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T034153_20180129T034636_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T034912_20180129T035234_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T035241_20180129T041549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T044818_20180129T045814_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180129T050351 20180129T051425 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180129T052840 20180129T055735 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180129T060555 20180129T060658 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T061948_20180129T065412_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T070019_20180129T070537_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T070735_20180129T071015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T074315_20180129T074537_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T074643_20180129T074721_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T075947_20180129T080821_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T081107_20180129T083320_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T083907_20180129T084020_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T084028_20180129T084433_C001	Ice Range Averaging Status	The Ce Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T084632_20180129T085938_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T090125_20180129T090734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180129T090918 20180129T091359 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180129T093852 20180129T101214 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180129T101411 20180129T101919 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T101938_20180129T102238_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T103017_20180129T110105_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T112030_20180129T113521_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180129T113541_20180129T115124_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T115311_20180129T115816_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T115855_20180129T120021_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T120752_20180129T121753_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T122411_20180129T123526_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T130207_20180129T131403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T131542_20180129T133014_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T133227_20180129T133727_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T134508_20180129T140749_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T140911_20180129T141737_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T144649_20180129T151011_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T151705_20180129T152017_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T152257_20180129T155002_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T162324_20180129T164911_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T165050_20180129T165557_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T165604_20180129T165931_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T170317_20180129T171401_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T171938_20180129T173647_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T175946_20180129T180708_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T182240_20180129T182843_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T183049_20180129T183630_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T183713_20180129T183831_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T184226_20180129T191531_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T192928_20180129T193021_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T194902_20180129T200814_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180129T201014_20180129T201524_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T202101_20180129T205519_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T211959_20180129T212436_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T215426_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T225021_20180129T230853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180129T070537_20180129T070655_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180129T092229_20180129T092315_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180129T101232_20180129T101411_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180129T165557_20180129T165604_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T001532_20180129T001608_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T003101_20180129T003105_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T052834_20180129T052840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T075857_20180129T075947_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T191749_20180129T191754_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T224943_20180129T225021_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180129T000032_20180129T001532_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_20180129T002209_20180129T002426_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T002504_20180129T002923_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T003105_20180129T004602_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_20180129T004741_20180129T010219_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_20180129T012552_20180129T013146_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_20180129T014145_20180129T015707_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_20180129T015959_20180129T020829_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T021044_20180129T023329_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_20180129T031112_20180129T033634_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_20180129T033906_20180129T034059_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T034153_20180129T034636_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T034912_20180129T035234_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_20180129T035241_20180129T041549_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_20180129T044818_20180129T045814_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_20180129T050351_20180129T051425_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_20180129T052111_20180129T052706_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T052840_20180129T055735_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_20180129T060555_20180129T060658_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_20180129T061948_20180129T065412_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_20180129T070019_20180129T070537_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180129T070735_20180129T071015_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_20180129T074315_20180129T074537_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_20180129T074643_20180129T074721_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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Comp. 18. (Comp. 2. delication for an expension for an ex	CS_OFFL_SIR_IOPM_2_20180129T075947_20180129T080821_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Computer	CS_OFFL_SIR_IOPM_2_20180129T081107_20180129T083320_C001		
Comparison   Com	CS_OFFL_SIR_IOPM_2_20180129T083907_20180129T084020_C001		
Description	CS OFFL SIR IOPM 2 20180129T084028 20180129T084433 C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
COLUMNIA COMPANIANCE CONTROL OF THE STATE OF			The SWH and Ocean Averaging Status Flags have been set for one or
COUNT, STUDY JOSEPH STREET, DOTS JOSEPH STREET			
Security Associated States Codes  Security Associated States Codes  Security Associated Associated States Codes  Security Associated Associated States Codes  Security Associated Associated Associated States States Income and the Codes  Security Associated Associated Associated States Income and the Codes  Security Associated Associated Associated States Income and the Codes  Security Associated Associated Associated States Income and the Codes  Security Associated Associated Associated Associated Associated Associated States Income and the Codes  Security Associated Associated Associated Associated Associated Associated Associated States Income and the Codes  Security Associated States Income and the Code on the Code Office Associated Associated Associated Associated Associated Associated Associated States Income and the Code on the Code Office Associated A			
Security (1997)—2, 2018 (1997) 231 (1997) 23	CS_OFFL_SIR_IOPM_2_20180129T090918_20180129T091359_C001	Backscatter Averaging Status	more records.
Co., CHE, SRI, LOWA _2, 2018/00/28 112000, 2018/28 112000, 201	CS_OFFL_SIR_IOPM_2_20180129T093852_20180129T101214_C001		more records.
Coffe, Sin, Orm. 2 (2010)22111020 (2010)22111020 (2011) 2011 2011 2011 2011 2011 2011 2011	CS_OFFL_SIR_IOPM_2_20180129T101411_20180129T101919_C001	Ice Backscatter Averaging Status	records.
Bod Accepted Averaging States. Place In the SWH and Clean Averaging States Place have been set for one or	CS_OFFL_SIR_IOPM_2_20180129T101938_20180129T102238_C001	Ice Backscatter Averaging Status	
Language State Flags have been set for one or more control.  Soft-R. SRI, DOPM 2. 2016/03/F116511_05/03/25/116586_COORD CO. CO. PT. SRI, DOPM 2. 2016/03/F116582_COORD 2016/F116596_COORD CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD 2016/F116596_COORD CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD 2016/F116596_COORD CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD 2016/F116596_COORD CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD 2016/F116596_COORD CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD 2016/F116596_COORD CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD CO. CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD 2016/F116596_COORD CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116592_COORD 2016/F116596_COORD CO. CO. CO. PT. SRI, DOPM 2. 2016/03/F116591_COORD CO.	CS_OFFL_SIR_IOPM_2_20180129T103017_20180129T110105_C001		* *
Sec. OFFL. SIN. (UPM. 2. 201001291119169, 201001291119169, 2010012911919191, 2010012911919191, 2010012	CS_OFFL_SIR_IOPM_2_20180129T112030_20180129T113521_C001		
E. G.P.F., S.P. (P.P.M. 2. 201801297110297. 201901297129292 District Prisonal Process  G. G.P.F., S.P. (P.P.M. 2. 201801297120752 20190129712056 COID  G. G.P.F., S.P. (P.P.M. 2. 201801297120752 20190129712056 COID  G. G.P.F., S.P. (P.P.M. 2. 201801297120077. 20190129712056 COID  SWITH Averaging Status. Green	CS_OFFL_SIR_IOPM_2_20180129T113541_20180129T115124_C001		
DE Dicksteller Averaging Status Cocon  OS_OFF_SIN_OPM_2_20190129712997_20190129712975_001  SNPH Averaging Status Cocon  OS_OFF_SIN_OPM_2_20190129712941_20190129713975_001  SNPH Averaging Status Cocon  SNPH Averaging Sta	CS_OFFL_SIR_IOPM_2_20180129T115311_20180129T115816_C001	Ice Backscatter Averaging Status	
SM FAVERING SALE, CHEEN 2, 2018 012971 2018 2,	CS_OFFL_SIR_IOPM_2_20180129T115855_20180129T120021_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
SO, OFFL, SIR, IOPM 2, 2018012971132402, 201801297133405, COORD SO, OFFL, SIR, IOPM 2, 2018012971313402, 201801297133405, COORD SO, OFFL, SIR, IOPM 2, 2018012971313402, 201801297133401, COORD SO, OFFL, SIR, IOPM 2, 2018012971313402, 201801297133401, COORD SO, OFFL, SIR, IOPM 2, 2018012971313402, 201801297134707, COOT SO, OFFL, SIR, IOPM 2, 201801297134302, 201801297134707, COOT SO, OFFL, SIR, IOPM 2, 201801297134302, 2018012971440740, COOT SO, OFFL, SIR, IOPM 2, 201801297134002, 2018012971440740, COOT SO, OFFL, SIR, IOPM 2, 201801297134002, 2018012971440740, COOT SO, OFFL, SIR, IOPM 2, 201801297134004, 2018012971440740, COOT SO, OFFL, SIR, IOPM 2, 201801297135002, 201801297134007, COOT SO, OFFL, SIR, IOPM 2, 201801297135002, 201801297134007, COOT SO, OFFL, SIR, IOPM 2, 201801297135002, 201801297134007, COOT SO, OFFL, SIR, IOPM 2, 201801297134004, COOT SO,	CS_OFFL_SIR_IOPM_2_20180129T120752_20180129T121753_C001		The SWH and Ocean Averaging Status Flags have been set for one or
Sept. Self, Dept. 2, 2018012911301642, 2018012911301742	CS_OFFL_SIR_IOPM_2_20180129T122411_20180129T123526 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SOFT_SIR_JOPM_2_01801297119327_20091297119327_0001  SOFT_SIR_JOPM_2_0180129714048_20190129714079_0001  SOFT_SIR_JOPM_2_0180129714091_20180129714079_0001  SOFT_SIR_JOPM_2_0180129714091_20180129714079_0001  SOFT_SIR_JOPM_2_0180129714091_20180129714091_0001  SOFT_SIR_JOPM_2_0180129714091_20180129716900_0001  SOFT_SIR_JOPM_2_0180129714091_20180129716900_0001  SOFT_SIR_JOPM_2_0180129714091_20180129716900_0001  SOFT_SIR_JOPM_2_0180129714091_20180129716900_0001  SOFT_SIR_JOPM_2_0180129714091_20180129716900_0001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197160001  SOFT_SIR_JOPM_2_0180129714090_000197176001  SOFT_SIR_JOPM_2_0180129714090_000197176001  SOFT_SIR_JOPM_2_01801297179000010001  SOFT_SIR_JOPM_2_0180129717900001001  SOFT_SIR_JOPM_2_01801297179000001001  SOFT_SIR_JOPM_2_01801297179000001001  SOFT_SIR_JOPM_2_0180129717900000000000000000000000000000000		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SOFFL_SR_JOPM_2_20180129713427_2018012971377_C001  SOFFL_SR_JOPM_2_20180129713408_20180129714072_C001  SOFFL_SR_JOPM_2_20180129714098_20180129715101_C001  SOFFL_SR_JOPM_2_201801297151008_201801297151014_C001  SOFFL_SR_JOPM_2_201801297151008_20180129715004_C001  SOFFL_SR_JOPM_2_201801297151008_20180129715007_C001  SOFFL_SR_JOPM_2_201801297151008_20180129715007_C001  SOFFL_SR_JOPM_2_20180129715008_20180129715007_C001  SOFFL_SR_JOPM_2_20180129715008_20180129715007_C001  SOFFL_SR_JOPM_2_20180129717908_20180129715007_C001  SOFFL_SR_JOPM_2_20180129717908_20180129716007_C001  SOFFL_SR_JOPM_2_20180129717908_20180129717907_C001  SOFFL_SR_JOPM_2_20180129717908_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717908_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_20180129717902_201801297179007_C001  SOFFL_SR_JOPM_2_201801297179007_20180129710007_C001  SOFFL_SR_JOPM_2_201801297179007_C00101297179007_C001  SOFFL_SR_JOPM_2_201801297179007_C00101297179007_C001  SOFFL_SR_JOPM_2_201801297179007_C00101297179007_C001  SOFFL_SR_JOPM_2_201801297179007_C00101297179007_C001  SOFFL_SR_JOPM_2_201801297179007_C00101297179007_C001  SOFFL_SR_JOPM_2_201801297179007_C00101297179007_C001  SOFFL_SR_JOPM_2_201801297179007_C0010129717		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SO CPFL_SR_DOPM_2.20180129714908_20190129714972_C001  SO CPFL_SR_DOPM_2.20180129714908_20190129714972_C001  SO CPFL_SR_DOPM_2.20180129714908_201901297151914_C001  SO CPFL_SR_DOPM_2.20180129714908_201801297151914_C001  SO CPFL_SR_DOPM_2.20180129714908_20180129716087_C001  SO CPFL_SR_DOPM_2.201801297151908_20180129716087_C001  SO CPFL_SR_DOPM_2.20180129716080_20180129716087_C001  SO CPFL_SR_DOPM_2.20180129716080_20180129716087_C001  SO CPFL_SR_DOPM_2.20180129716080_20180129716087_C001  SO CPFL_SR_DOPM_2.20180129716080_20180129716080_C001  SO CPFL_SR_DOPM_2.20180129716080_20180129716080_C001  SO CPFL_SR_DOPM_2.20180129717908_20180129716080_C001  SO CPFL_SR_DOPM_2.20180129717908_20180129716080_C001  SO CPFL_SR_DOPM_2.20180129717908_20180129716080_C001  SO CPFL_SR_DOPM_2.20180129717908_20180129717908_C001  SO CPFL_SR_DOPM_2.20180129717908_2018012971908_C001  SO CPFL_SR_DOPM_2.20180129717908_2018012971908_C001  SO CPFL_SR_DOPM_2.20180129717908_2018012971908_C001  SO CPFL_SR_DOPM_2.2018012971908_2018012971908_C001  SO CPFL_SR_DOPM_2.			
So, OFFL_SR_JOPM_2_20180129T140911_20180129T14177_0001  SS_OFFL_SR_JOPM_2_20180129T140912_0180129T151011_0001  SS_OFFL_SR_JOPM_2_20180129T15108_20180129T151014_0001  SS_OFFL_SR_JOPM_2_20180129T15108_20			
Backscatter Averaging Status  Fig. (PFM_2 201801297114940_2018012971151041_0001  SC_OFFL_SRI_JOPM_2 2018012971151038_2018012971151044_0001  CS_OFFL_SRI_JOPM_2 201801297115708_20180129715007_0001  SC_OFFL_SRI_JOPM_2 20180129715708_20180129715002_001  SC_OFFL_SRI_JOPM_2 20180129715708_20180129715002_001  SC_OFFL_SRI_JOPM_2 20180129715008_20180129716007_0001  SC_OFFL_SRI_JOPM_2 20180129715008_20180129716002  SC_OFFL_SRI_JOPM_2 20180129717008_20180129716009_00180129716000000000000000000000000000000000000			more records.
Sc. OFFL_SIR_LOPM_2_20180129119308_201801291195002_C001  Sc. OFFL_SIR_LOPM_2_20180129119277_201801291195002_C001  Sc. OFFL_SIR_LOPM_2_20180129119237_201801291195002_C001  Sc. OFFL_SIR_LOPM_2_20180129119237_201801291195002_C001  Sc. OFFL_SIR_LOPM_2_20180129119237_201801291195002_C001  Sc. OFFL_SIR_LOPM_2_20180129119237_201801291195050_C001  Sc. OFFL_SIR_LOPM_2_201801291192304_C0002_001291195050_C001  Sc. OFFL_SIR_LOPM_2_201801291192004_C000201291195050_C001  Sc. OFFL_SIR_LOPM_2_201801291192004_C000201291195050_C001  Sc. OFFL_SIR_LOPM_2_2018012911929171940_C001  Sc. OFFL_SIR_LOPM_2_2018012911929171940_C001  Sc. OFFL_SIR_LOPM_2_20180129119304_C001  Sc. OFFL_SIR_LOPM_2_20180129119305_C001  Sc. OFFL_SIR_LOPM_2_20180129119315_C001  Sc. OFFL_SIR_LOPM_2_20180129119315_C001		Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180129115207_20180129115207_C001  CS_OFFL_SIR_IOPM_2_201801291162334_20180129116500_20180129116507_C001  CS_OFFL_SIR_IOPM_2_201801291162304_20180129116507_C001  CS_OFFL_SIR_IOPM_2_20180129116500_20180129116507_C001  CS_OFFL_SIR_IOPM_2_20180129116500_20180129116507_C001  CS_OFFL_SIR_IOPM_2_20180129116500_20180129116507_C001  CS_OFFL_SIR_IOPM_2_20180129116500_20180129116507_C001  CS_OFFL_SIR_IOPM_2_2018012911903_20180129119401_C001  CS_OFFL_SIR_IOPM_2_2018012911903_20180129119401_C001  CS_OFFL_SIR_IOPM_2_2018012911903_20180129119530_C001  CS_OFFL_SIR_IOPM_2_20180129119204_20180129119530_C001  CS_OFFL_SIR_IOPM_2_20180129119204_C0180129119530_C001  CS_OFFL_SIR_IOPM_2_20180129119203_201801291190021_C001  CS_OFFL_SIR_IOPM_2_20180129119203_201801291200814_C001  CS_OFFL_SIR_IOPM_2_2018012912012721450_C001  CS_OFFL_SIR_IOPM_2_2018012912101427_201801291210505_C001  CS_OFFL_SIR_IOPM_2_201801291120120120120120081_C001  CS_OFFL_SIR_IOPM_2_2018012912120127_1050012912123085_C001  CS_OFFL_SIR_IOPM_2_201801291212012_00101291123085_C001  CS_OFFL_SIR_IOPM_2_20180129112012123085_C001  CS_OFFL_SIR_IOPM_2_201801	CS_OFFL_SIR_IOPM_2_20180129T144649_20180129T151011_C001		more records.
CS_OFFL_SIR_LOPM_2_201801201150207_2018012011600020010000000000000000000000	CS_OFFL_SIR_IOPM_2_20180129T151308_20180129T151644_C001	Ice Backscatter Averaging Status	records.
Backscatter Averaging Status  SPH Averaging Status  SPH Averaging Status  The SPH and Ocean Averaging Status Flags have been set for one or more records.  The SPH and Ocean Averaging Status Flags have been set for one or more records.  The SPH and Ocean Averaging Status Flags have been set for one or more records.  The SPH and Ocean Averaging Status Flags have been set for one or more records.  The Ison Backscatter Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Flags have been set for one or more records.  SPH Averaging Status Fl	CS_OFFL_SIR_IOPM_2_20180129T151705_20180129T152017_C001		records.
Source Sire Lipher 2 201801291102291 102291 10291 1039	CS_OFFL_SIR_IOPM_2_20180129T152257_20180129T155002_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180129T1936504_20180129T17401_C001  SWH Averaging Status  SWH Avera	CS_OFFL_SIR_IOPM_2_20180129T162324_20180129T164911_C001		
CS_OFFL_SIR_IOPM_2_20180129T17931_20180129T173647_c001  SWH Averaging Status, Ocean Backscatter Averaging Status Coean Mackscatter Averaging Status Coean Ma	CS_OFFL_SIR_IOPM_2_20180129T165050_20180129T165557_C001	Ice Backscatter Averaging Status	
Backscatter Averaging Status Incore records.  Soff-Lisr JOPM_2_201801297171938_201801297173047_C001  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Cocan Backscatter Averaging Status Flags have been set for one or mor	CS_OFFL_SIR_IOPM_2_20180129T165604_20180129T165931_C001	Ice Backscatter Averaging Status	
Backscatter Averaging Status  GS_OFFL_SIR_IOPM_2_20180129T175946_20180129T182780_C001  SWH Averaging Status  GS_OFFL_SIR_IOPM_2_20180129T182240_20180129T191531_C001  Backscatter Averaging Status  Ice Backscatte	CS_OFFL_SIR_IOPM_2_20180129T170317_20180129T171401_C001		
Synth Averaging Status. Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status. Ocean Backscatter 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 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 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 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 f	CS_OFFL_SIR_IOPM_2_20180129T171938_20180129T173647_C001		
SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The 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 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 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 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.	CS_OFFL_SIR_IOPM_2_20180129T175946_20180129T180708_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180129T18363_CO01  CS_OFFL_SIR_IOPM_2_20180129T191826_20180129T191531_CO01  SWH Averaging Status. Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH 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 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 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 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	CS OFFL SIR IOPM 2 20180129T182240 20180129T182843 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SWH Averaging Status. Ocean Backscatter Averaging Status. Ocean Ocean Averaging Status Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180129T215454_OC001 SWH Averaging Status. Ocean Backscatter Averaging Status. Ocean Dackscatter Averaging Status. Ocean Dackscatter Averaging Status. Ocean Dackscat			The Ice Backscatter Averaging Status Flag has been set for one or more
SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  SWH Averaging Status  SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The 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 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 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.  SWH Averaging Status. Ocean Backscatter Averaging Status. Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status. Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status. Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status. Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status. Ocean Backscatter Averaging Status Flags have		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SWH Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T201014_20180129T205519_C001  CS_OFFL_SIR_IOPM_2_20180129T201014_20180129T205519_C001  CS_OFFL_SIR_IOPM_2_20180129T201019_20180129T205519_C001  CS_OFFL_SIR_IOPM_2_20180129T2019529_20180129T214456_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T214456_C001  CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T214543_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T21456_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T214526_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T21526_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T21526_C001  CS_OFFL_SIR_IOPM_2_20180129T20127_20180129T21526_C001  CS_OFFL_SIR_IOPM_2_20180129T20127_20180129T20152_C001  CS_OFFL_SIR_IOPM_2_20180129T20127_20180129T20152_C001  CS_OFFL_SIR_IOPM_2_20180129T20127_20180129T203853_C001  CS_OFFL_SIR_IOPM_2_20180129T200941_20180129T203853_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T2033355_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T201014_20180129T201524_C001  CS_OFFL_SIR_IOPM_2_20180129T202101_20180129T205519_C001  CS_OFFL_SIR_IOPM_2_20180129T211959_20180129T212436_C001  CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001  CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001  CS_OFFL_SIR_IOPM_2_20180129T214543_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T21516_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T21516_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T215426_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T23135_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T23335_C001  CS_OFFL_SIR_IOPM_2_20180129T233315_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233315_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233315_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233345_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_201801		Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180129T202101_20180129T205519_C001  CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001  CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001  CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001  CS_OFFL_SIR_IOPM_2_20180129T214543_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T215426_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T215426_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T215426_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T23135_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  SWH Averaging Status  SWH Averaging Status  The loe Back		Backscatter Averaging Status	more records.
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  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 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 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 SWH and Ocean Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averagi			records.
Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001  CS_OFFL_SIR_IOPM_2_20180129T214543_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T21526_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T21526_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T21526_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T2200127_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092215_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T0922315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T0922315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T0922315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_2	CS_OFFL_SIR_IOPM_2_20180129T202101_20180129T205519_C001	Backscatter Averaging Status	more records.
Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T214543_20180129T214550_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T215426_C001  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T215426_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001  CS_OFFL_SIR_IOPM_2_20180129T225021_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T2333458_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T2333458_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  SWH Averaging Status  CS_OFFL_SIR_IOPN_2_20180129T070537_20180129T092315_C001  SWH Averaging Status  CS_OFFL_SIR_IOPN_2_20180129T092239_20180129T092315_C001  SWH Averaging Status  CS_OFFL_SIR_IOPN_2_20180129T0922315_C001  SWH Averaging Status  The CB 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 Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The	CS_OFFL_SIR_IOPM_2_20180129T211959_20180129T212436_C001	Backscatter Averaging Status	more records.
Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T2251426_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001  CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001  CS_OFFL_SIR_IOPM_2_20180129T225021_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T070655_C001  CS_OFFL_SIR_IOPN_2_20180129T070537_20180129T070655_C001  CS_OFFL_SIR_IOPN_2_20180129T070537_20180129T092315_C001  CS_OFFL_SIR_IOPN_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPN_2_20180129T092290_20180129T092315_C001  CS_OFFL_SIR_IOPN_2_20180129T092290_20180129T092315_C001  CS_OFFL_SIR_IOPN_2_20180129T092290_20180129T092315_C001  CS_OFFL_SIR_IOPN_2_20180129T092290_20180129T092315_C001  CS_OFFL_SIR_IOPN_2_2	CS_OFFL_SIR_IOPM_2_20180129T212516_20180129T214250_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T22021_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T22021_20180129T230853_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T0922315_C001  CS_OFFL_SIR_IOPM_2_20180129T0922	CS_OFFL_SIR_IOPM_2_20180129T214543_20180129T214550_C001		more records.
Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T225021_20180129T230853_C001  Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T0922315_C001  CS_OFF	CS_OFFL_SIR_IOPM_2_20180129T215216_20180129T215426_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_20180129T225021_20180129T230853_C001  SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233335_C001  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T070537_20180129T070655_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092229_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092239_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092315_C001  CS_OFFL_SIR_IOPM_2_20180129T092315_C	CS_OFFL_SIR_IOPM_2_20180129T220127_20180129T223135_C001		
CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001  SWH Averaging Status, Ocean Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status  The loe Backscatter Averaging Status Flag has been set for one or more records.  The loe Backscatter Averaging Status Flag has been set for one or more records.  The loe Backscatter Averaging Status Flag has been set for one or more records.  The loe Backscatter Averaging Status Flag has been set for one or more records.  The loe Backscatter Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The SWH and Ocean Averaging Status Flag 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 loe Backscatter Averaging Status Flags have been set for one or more records.  The loe Backscatter 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 loe Backscatter Averaging Status Flags have been set for one or more records.  The loe Backscatter Averaging Status Flags have been set for one or more records.  The loe Backscatter Averaging Status Flags have been set for one or more records.  The loe Backscatter Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180129T225021_20180129T230853_C001	SWH Averaging Status, Ocean	
CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  SWH Averaging Status, Ocean Backscatter Averaging Status  CS_OFFL_SIR_IOPN_2_20180129T092229_20180129T092315_C001  SWH Averaging Status  SWH Averaging Status  SWH 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 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 averaging Status Flags have been set for one or more records.  The SWH averaging Status Flags have been set for one or more records.  The SWH averaging Status Flags have been set for one or more records.  The SWH averaging Status Flags have been set for one or more records.  The SWH averaging Status Flags have been set for one or more records.  The SWH averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180129T230941_20180129T232304_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180129T233458_20180129T233836_C001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  SWH Averaging Status, Ocean Backscatter Averaging Status  CS_OFFL_SIR_IOPN_2_20180129T092229_20180129T092315_C001  SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status  SWH Averaging Status  SWH Averaging Status  The Ice Backscatter 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 Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180129T233137_20180129T233335_C001		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20180129T070537_20180129T070655_C001  SWH Averaging Status, Ocean Backscatter Averaging Status  SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The 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 Flags have been set for one or more records.			The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20180129T092229_20180129T092315_C001  SWH Averaging Status, Ocean Backscatter Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The IOPN_2_20180129T092229_20180129T092315_C001  In SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The IOPN_2_20180129T101232_20180129T101411_C001  In SWH and Ocean Averaging Status Flags have been set for one or more records.		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20180120T101232_20180120T101411_C001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
			The Ice Backscatter Averaging Status Flag has been set for one or more
	55_511 E_5015_161 14_2_201001291 101292_201001291 101411_6001	The Dackscaller Averaging Status	

CS_OFFL_SIR_IOPN_2_20180129T165557_20180129T165604_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T001532_20180129T001608_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_20180129T003101_20180129T003105_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_20180129T052834_20180129T052840_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T075857_20180129T075947_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_20180129T191749_20180129T191754_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180129T224943_20180129T225021_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.

Number of products with errors: 42

### 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).

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:

#### 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180128T233422_20180129T002400_C003	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180129T002400_20180129T011336_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_220180129T011336_20180129T020314_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_220180129T020314_20180129T025249_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_220180129T025249_20180129T034227_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T034227_20180129T043203_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_220180129T043203_20180129T052141_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180129T052141_20180129T0611117_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180129T061117_20180129T070054_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_220180129T070054_20180129T075030_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_220180129T075030_20180129T084008_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_220180129T084008_20180129T092944_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_220180129T092944_20180129T101921_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_220180129T101921_20180129T110857_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_220180129T110857_20180129T115835_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_220180129T115835_20180129T124811_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180129T124811_20180129T133749_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_220180129T133749_20180129T142724_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.

	á.	
CS_OFFL_SIR_IOP_220180129T142724_20180129T151702_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_220180129T151702_20180129T160638_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_220180129T160638_20180129T165616_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_220180129T165616_20180129T174552_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T174552_20180129T183529_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_220180129T183529_20180129T192505_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_220180129T192505_20180129T201443_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T201443_20180129T210419_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T210419_20180129T215356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T215356_20180129T224332_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_220180129T224332_20180129T233310_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.

Sadacatter Averaging Status   Cocan and to Averaging Status   Flags have been set for one or records	Product	Test Failed	Description
So CFFL_SIR_IOP_2_20190129701336_201901297020344_C001  Sackscatter Averaging Status, for a SWH Averaging Status (Dean and Loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or more records.  The SWH Coran and loe Averaging Status Flags have been set for one or mo	CS_OFFL_SIR_IOP_220180128T233422_20180129T002400_C003	Backscatter Averaging Status	
Backscater Averaging Status, Cepa Service Oran and Loc Averaging Status Plags have been set for one or more records.  SWH Averaging Status, Cepa Status, Cepa Service Plant Pl	CS_OFFL_SIR_IOP_220180129T002400_20180129T011336_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
SOFFL_SIR_IOP_2_20180129T025249_20180129T034227_C001 SIMH Averaging Status, Scooph Backscatter Averaging Status and the Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Coanh Backscatter Averaging Status, Scooph Backscatter Averaging	CS_OFFL_SIR_IOP_220180129T011336_20180129T020314_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
Backscatter Averaging Status, Coean Backscatter Averaging Status,	CS_OFFL_SIR_IOP_220180129T020314_20180129T025249_C001	Backscatter Averaging Status, Ice	
SCOFFL_SIR_IOP_2_20180129T04203_20180129T052141_cool  Backscatter Averaging Status, loe Backscatter Averagin	CS_OFFL_SIR_IOP_220180129T025249_20180129T034227_C001		
S_OFFL_SIR_JOP_2_20180129T04203_20180129T061117_C001  Backscatter Averaging Status, Ceean Backscatter	CS_OFFL_SIR_IOP_220180129T034227_20180129T043203_C001	Backscatter Averaging Status, Ice	
SOFFL SIR_IOP_2_20180129T061117_20180129T07054_C001  Backscatter Averaging Status, local Backscatter A	CS_OFFL_SIR_IOP_220180129T043203_20180129T052141_C001	Backscatter Averaging Status, Ice	
Backscatter Averaging Status, lee Backscatter Averaging Status, lee Backscatter Averaging Status, Decan Backscatter Averaging Status, Decan Backscatter Averaging Status SWH Aver	CS_OFFL_SIR_IOP_220180129T052141_20180129T061117_C001	Backscatter Averaging Status, Ice	
S_OFFL_SIR_IOP_2_20180129T070054_20180129T08008_C001  Backscatter Averaging Status, loe Backscatter Averaging Status of Packscatter Averaging Status of Packsc	CS_OFFL_SIR_IOP_220180129T061117_20180129T070054_C001	Backscatter Averaging Status, Ice	
S_OFFL_SIR_IOP_2_20180129T084008_20180129T092944_C001  CS_OFFL_SIR_IOP_2_20180129T084008_20180129T092944_C001  SWH Averaging Status, Ocean Backscatter Averaging Status (Deads acked there Averaging Status) (Deads acked there Averaging	CS_OFFL_SIR_IOP_220180129T070054_20180129T075030_C001	Backscatter Averaging Status, Ice	
S_OFFL_SIR_IOP_2_20180129T084008_20180129T101921_C001  Sackscatter Averaging Status, Cean Backscatter Averaging Status, loe Backscatter Averaging Status loe Backscatter Averaging Status loe Backscatter Averaging Status  CS_OFFL_SIR_IOP_2_20180129T110857_20180129T115835_C001  CS_OFFL_SIR_IOP_2_20180129T115835_20180129T115835_C001  SWH Averaging Status, Coean Backscatter Averaging Status loe Backscatter Averaging Status, loe Backscatter Averaging Stat	CS_OFFL_SIR_IOP_220180129T075030_20180129T084008_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_IOP_2_20180129T101921_20180129T110857_CO01  CS_OFFL_SIR_IOP_2_20180129T101921_20180129T110857_CO01  CS_OFFL_SIR_IOP_2_20180129T110857_20180129T115835_CO01  CS_OFFL_SIR_IOP_2_20180129T110857_20180129T115835_CO01  CS_OFFL_SIR_IOP_2_20180129T115835_20180129T124811_CO01  CS_OFFL_SIR_IOP_2_20180129T115835_20180129T124811_CO01  CS_OFFL_SIR_IOP_2_20180129T124811_20180129T133749_CO01  CS_OFFL_SIR_IOP_2_20180129T124811_20180129T133749_CO01  CS_OFFL_SIR_IOP_2_20180129T124811_20180129T133749_CO01  CS_OFFL_SIR_IOP_2_20180129T133749_20180129T142724_CO01  CS_OFFL_SIR_IOP_2_20180129T133749_20180129T142724_CO01  CS_OFFL_SIR_IOP_2_20180129T13749_20180129T142724_CO01  CS_OFFL_SIR_IOP_2_20180129T142724_20180129T151702_CO01  CS_OFFL_SIR_IOP_2_20180129T151702_20180129T160638_CO01  CS_OFFL_SIR_IOP_2_20180129T151702_20180129T160638_CO01  CS_OFFL_SIR_IOP_2_20180129T151702_20180129T160638_CO01  CS_OFFL_SIR_IOP_2_20180129T160638_20180129T166636_CO01  CS_OFFL_SIR_IOP_2_20180129T160638_20180129T165616_CO01  Eackscatter Averaging Status, Ice Backscatter Averagi	CS_OFFL_SIR_IOP_220180129T084008_20180129T092944_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
Backscatter Averaging Status, Ice Backsc	CS_OFFL_SIR_IOP_220180129T092944_20180129T101921_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180129T110857_20180129T115835_C001  Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status  CS_OFFL_SIR_IOP_2_20180129T133749_20180129T142724_C001  CS_OFFL_SIR_IOP_2_20180129T142724_20180129T151702_C001  CS_OFFL_SIR_IOP_2_20180129T151702_20180129T160638_C001  CS_OFFL_SIR_IOP_2_20180129T151702_20180129T160638_C001  Backscatter Averaging Status, Ice	CS_OFFL_SIR_IOP_220180129T101921_20180129T110857_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180129T115835_20180129T124811_C001  Backscatter Averaging Status, Ice Backscatter Averag	CS_OFFL_SIR_IOP_220180129T110857_20180129T115835_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180129T124811_20180129T133749_C001  Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Statu	CS_OFFL_SIR_IOP_220180129T115835_20180129T124811_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180129T133749_20180129T142724_C001  Backscatter Averaging Status, Ice Backscatter Averag	CS_OFFL_SIR_IOP_220180129T124811_20180129T133749_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180129T142724_20180129T151702_C001  Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status  CS_OFFL_SIR_IOP_2_20180129T151702_20180129T160638_C001  Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status  SWH Averaging Status, Ice Backscatter Averaging Status  The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.  The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.  The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOP_220180129T133749_20180129T142724_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180129T151702_20180129T160638_C001  Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean and Ice Averaging Status Flags have been set for one or more records.  The SWH, Ocean and Ice Averaging Status Flags have been set for one Backscatter Averaging Status, Ice Backscatter Averaging Stat	CS_OFFL_SIR_IOP_220180129T142724_20180129T151702_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOP_2_20180129T160638_20180129T165616_C001  Backscatter Averaging Status, Ice	CS_OFFL_SIR_IOP_220180129T151702_20180129T160638_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
packscaller Averaging Status	CS_OFFL_SIR_IOP_220180129T160638_20180129T165616_C001		
CS_OFFL_SIR_IOP_2_20180129T165616_20180129T174552_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_220180129T165616_20180129T174552_C001		

CS_OFFL_SIR_IOP_220180129T174552_20180129T183529_C001	IBackscatter Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180129T183529_20180129T192505_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 OFFE SIR IOP 2 201801291192505 201801291201443 C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFE SIR IOP 2 201801291210419 201801291215356 C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180129T215356_20180129T224332_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180128T233422_20180129T002400_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T002400_20180129T011336_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T011336_20180129T020314_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T025249_20180129T034227_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T034227_20180129T043203_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T043203_20180129T052141_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T052141_20180129T061117_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T061117_20180129T070054_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T070054_20180129T075030_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T075030_20180129T084008_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T084008_20180129T092944_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T092944_20180129T101921_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T101921_20180129T110857_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T110857_20180129T115835_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T115835_20180129T124811_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T124811_20180129T133749_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T133749_20180129T142724_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T160638_20180129T165616_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T174552_20180129T183529_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T183529_20180129T192505_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T201443_20180129T210419_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T210419_20180129T215356_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T215356_20180129T224332_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180129T224332_20180129T233310_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.