

# IDEAS+ Daily Report for IOP data:

# <u>09/05/2019</u>



13-May-2019 roSat Ocean Processor	Check	L1 & L2	P2P
			P2P
oSat Ocean Processor	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
	Product Software Check	Nominal	Nominal
ediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
3, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
	Auxiliary Data File Usage Check Auxiliary Correction Error Check	Nominal Nominal	Nominal Nominal
	Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
	Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
	Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
	2. Global Coverage		
			Mode Coverage
2			

# 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

## 4.2 L1B Product Header Analysis

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

Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to	o check the validity of Auxiliary Data Files is correct
Number of products with errors: 0	e-determined baseline and also to	
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement reco	rd. The bit value of this flag indica	tes 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 measure	ment record. The hit value of this	flag indicates any problems when set
Attitude Correction Missing: This flag is currently set in error for IOPR prod		• •
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement recor	d. The bit value of this flag indicat	tes any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
Number of products with errors: 19		
	Test Failed	Description
Product	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001		•
Product CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001 CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001	Loss of Echo	The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001 CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001 CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPN1B_20190509T05346_20190509T005505_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T005346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T005346_20190509T072402_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T005346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPN1B_20190509T05346_20190509T05505_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T07402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T135827_20190509T140124_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T02331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T135827_20190509T140124_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T02331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T02331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T135827_20190509T140124_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T04604_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T140124_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T231754_C001	Loss of Echo	The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T135827_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T231217_20190509T231754_C001           CS_OFFL_SIR_IOPR1B_20190509T022945_20190509T023320_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T231217_20190509T231754_C001           CS_OFFL_SIR_IOPN1B_20190509T022945_20190509T023320_C001           CS_OFFL_SIR_IOPN1B_20190509T024408_20190509T03320_C001	Loss of Echo	The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T112121_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPN1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T02331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T135827_20190509T140124_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T211217_20190509T2312754_C001           CS_OFFL_SIR_IOPN1B_20190509T022945_20190509T023320_C001           CS_OFFL_SIR_IOPR1B_20190509T054308_20190509T055304_C001           CS_OFFL_SIR_IOPR1B_20190509T054308_20190509T05734_C001	Loss of Echo	The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T121212_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPM1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPM1B_20190509T02331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T104532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T231217_20190509T231754_C001           CS_OFFL_SIR_IOPR1B_20190509T0234538_20190509T023320_C001           CS_OFFL_SIR_IOPR1B_20190509T09417_20190509T091734_C001           CS_OFFL_SIR_IOPR1B_20190509T090417_20190509T091734_C001           CS_OFFL_SIR_IOPR1B_20190509T090417_20190509T091734_C001	Loss of Echo	The tracking echo is missing for one or more records         The tracking e
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T121212_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPN1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T04604_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T140124_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T204839_20190509T231754_C001           CS_OFFL_SIR_IOPN1B_20190509T022452_20190509T023320_C001           CS_OFFL_SIR_IOPN1B_20190509T0224532_20190509T023320_C001           CS_OFFL_SIR_IOPN1B_20190509T022945_20190509T023320_C001           CS_OFFL_SIR_IOPR1B_20190509T024538_20190509T055304_C001           CS_OFFL_SIR_IOPR1B_20190509T090417_20190509T09743_C001           CS_OFFL_SIR_IOPR1B_20190509T097105716_20190509T105743_C001           CS_OFFL_SIR_IOPR1B_20190509T105716_20190509T105743_C001	Loss of Echo         Loss of Echo	The tracking echo is missing for one or more records         The tracking e
Product           CS_OFFL_SIR_IOPM1B_20190509T083435_20190509T084150_C001           CS_OFFL_SIR_IOPM1B_20190509T105743_20190509T121212_C001           CS_OFFL_SIR_IOPM1B_20190509T231931_20190509T233639_C001           CS_OFFL_SIR_IOPN1B_20190509T05346_20190509T005505_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T072331_20190509T072402_C001           CS_OFFL_SIR_IOPN1B_20190509T104154_20190509T104604_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T204621_C001           CS_OFFL_SIR_IOPN1B_20190509T204532_20190509T205002_C001           CS_OFFL_SIR_IOPN1B_20190509T204539_20190509T20320_C001           CS_OFFL_SIR_IOPN1B_20190509T231217_20190509T23320_C001           CS_OFFL_SIR_IOPN1B_20190509T054308_20190509T055304_C001           CS_OFFL_SIR_IOPR1B_20190509T105716_20190509T105743_C001           CS_OFFL_SIR_IOPR1B_20190509T105716_20190509T105743_C001           CS_OFFL_SIR_IOPR1B_20190509T135410_20190509T135508_C001           CS_OFFL_SIR_IOPR1B_20190509T13574_20190509T135508_C001           CS_OFFL_SIR_IOPR1B_20190509T135742_0190509T135508_C001	Loss of Echo         Loss of Echo	The tracking echo is missing for one or more records           The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

# 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

CS\_OFFL\_SIR\_IOPR1B\_20190509T172017\_20190509T172806\_C001

CS\_OFFL\_SIR\_IOPR1B\_20190509T203405\_20190509T204410\_C001

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

Loss of Echo

Loss of Echo

## 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: 0

1

0

## 5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190509T021246_20190509T022019_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 84

Product CS_0FFL_SIR_IOPM_2_20190509T001005_20190509T002629_C001	Test Failed Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T002636_20190509T003848_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T005506_20190509T005904_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T010027_20190509T011610_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T012459_20190509T013338_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T014245_20190509T014710_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T014940_20190509T020356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T020536_20190509T020958_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T024228_20190509T024937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T025100_20190509T031437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T031732_20190509T032625_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T032857_20190509T035227_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T041937_20190509T045326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T045702_20190509T045841_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T045949_20190509T050414_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T050820_20190509T054054_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T060124_20190509T061605_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T062140_20190509T063239_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T063903_20190509T064452_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T064634_20190509T070412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T073732_20190509T081118_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T081809_20190509T082323_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T082616_20190509T082808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T083008_20190509T083346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T083435_20190509T084150_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T090041_20190509T090416_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T091734_20190509T092615_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T092901_20190509T095027_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T095641_20190509T095809_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T095816_20190509T100225_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T100549_20190509T101733_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T101921_20190509T102639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T102735_20190509T103141_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T103827_20190509T103927_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T103927_20190509T104020_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T105743_20190509T112121_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T112124_20190509T112941_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T113140_20190509T113708_C001	Ice Range Averaging Status	The loe Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T113727_20190509T113959_C001	Ice Range Averaging Status	The loe Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T114811_20190509T120041_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T120110_20190509T121818_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T121957_20190509T122115_C001	Ice Range Averaging Status	The loe Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T123957_20190509T125134_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T125337_20190509T130837_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T131107_20190509T131604_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190509T131625_20190509T131636_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T131644_20190509T131805_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T132511_20190509T133603_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T134207_20190509T135409_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T143301_20190509T144748_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T145028_20190509T145517_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T145541_20190509T145550_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T150216_20190509T152522_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T152546_20190509T153557_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190509T160323_20190509T162434_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T162444_20190509T162649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T163100_20190509T163432_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T164121_20190509T170912_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T174120_20190509T180701_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T180848_20190509T181345_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T181353_20190509T181721_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T182104_20190509T183159_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T183735_20190509T185525_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T190836_20190509T190904_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T194035_20190509T194156_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T194356_20190509T194551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T194846_20190509T195417_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T200037_20190509T203404_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T204716_20190509T204839_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20190509T210640 20190509T212448 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T212805_20190509T213313_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 201905097213921 201905097221311 C001		records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T222723_20190509T222738_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T223754_20190509T224232_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T224309_20190509T230047_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190509T231022_20190509T231217_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190509T231931_20190509T233639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T234121_20190509T234934_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190509T144810_20190509T145028_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190509T224233_20190509T224309_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190509T095809_20190509T095816_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190509T113720_20190509T113727_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190509T121819_20190509T121830_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190509T213627_20190509T213921_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.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190509T001005_20190509T002629_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T002636_20190509T003848_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T005506_20190509T005904_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T010027_20190509T011610_C001	0 0 1	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20190509T012459\_20190509T013338\_C001 CS OFFL SIR IOPM 2 20190509T014245 20190509T014710 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T014940\_20190509T020356\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T020536\_20190509T020958\_C001 CS OFFL SIR IOPM 2 20190509T024228 20190509T024937 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T025100\_20190509T031437\_C001 CS OFFL SIR IOPM 2 20190509T031732 20190509T032625 C001 CS OFFL SIR IOPM 2 20190509T032857 20190509T035227 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T041937\_20190509T045326\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T045702\_20190509T045841\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T045949\_20190509T050414\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T050820\_20190509T054054\_C001 CS OFFL SIR IOPM 2 20190509T060124 20190509T061605 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T062140\_20190509T063239\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T063903\_20190509T064452\_C001 CS OFFL SIR IOPM 2 20190509T064634 20190509T070412 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T073732\_20190509T081118\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T081809\_20190509T082323\_C001 CS OFFL SIR IOPM 2 20190509T082616 20190509T082808 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T083008\_20190509T083346\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T083435\_20190509T084150\_C001 CS OFFL SIR IOPM 2 20190509T090041 20190509T090416 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T091734\_20190509T092615\_C001 CS OFFL SIR IOPM 2 20190509T092901 20190509T095027 C001 CS OFFL SIR IOPM 2 20190509T095641 20190509T095809 C001 CS OFFL SIR IOPM 2 20190509T095816 20190509T100225 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T100549\_20190509T101733\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T101921\_20190509T102639\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T102735\_20190509T103141\_C001 CS OFFL SIR IOPM 2 20190509T103827 20190509T103927 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T103927\_20190509T104020\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T105743\_20190509T112121\_C001 CS OFFL SIR IOPM\_2\_20190509T112124\_20190509T112941\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T113140\_20190509T113708\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T113727\_20190509T113959\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T114811\_20190509T120041\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T120110\_20190509T121818\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T121957\_20190509T122115\_C001 CS OFFL SIR IOPM 2 20190509T123957 20190509T125134 C001 CS OFFL SIR IOPM 2 20190509T125337 20190509T130837 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T131107\_20190509T131604\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T131625\_20190509T131636\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T131644\_20190509T131805\_C001 CS OFFL SIR IOPM 2 20190509T132511 20190509T133603 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T134207\_20190509T135409\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T143301\_20190509T144748\_C001 CS OFFL SIR IOPM 2 20190509T145028 20190509T145517 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T145541\_20190509T145550\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T150216\_20190509T152522\_C001 CS OFFL SIR IOPM 2 20190509T152546 20190509T153557 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190509T160323\_20190509T162434\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status more record: Ice Backscatter Averaging Status ecords SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records. Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status nore records SWH Averaging Status, Ocean Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status ecords Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more record SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean

Backscatter Averaging Status

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

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

CS_OFFL_SIR_IOPM_2_20190509T162444_20190509T162649_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_20190509T163100_20190509T163432_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T163455_20190509T163822_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T164121_20190509T170912_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_20190509T174120_20190509T180701_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_20190509T180848_20190509T181345_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T181353_20190509T181721_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T182104_20190509T183159_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_20190509T183735_20190509T185525_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_20190509T190836_20190509T190904_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_20190509T194356_20190509T194551_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_20190509T194846_20190509T195417_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T200037_20190509T203404_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_20190509T210640_20190509T212448_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_20190509T212805_20190509T213313_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T213921_20190509T221311_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_20190509T222723_20190509T222738_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_20190509T224309_20190509T230047_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_20190509T231022_20190509T231217_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190509T231931_20190509T233639_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_20190509T234121_20190509T234934_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_20190509T235008_20190509T235053_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190509T144810_20190509T145028_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190509T224233_20190509T224309_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_20190509T095809_20190509T095816_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190509T113720_20190509T113727_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190509T121819_20190509T121830_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_20190509T213627_20190509T213921_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:

# 6. IOP L2 Pole-to-Pole Data Quality Check

### 6.1 P2P Product Format Check

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

## 6.2 P2P Product Header Analysis

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

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

65

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20190509T014149_20190509T023128_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 6.6 P2P Range Measurement Check

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

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

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

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

Number of products with errors: 29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190509T000235_20190509T005214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T005214_20190509T014149_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_220190509T014149_20190509T023128_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_220190509T023128_20190509T032102_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_220190509T032102_20190509T041042_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_220190509T041042_20190509T050016_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_220190509T050016_20190509T054955_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_220190509T054955_20190509T063930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T063930_20190509T072909_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_220190509T072909_20190509T081843_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_220190509T081843_20190509T090822_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_220190509T090822_20190509T095757_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_220190509T095757_20190509T104736_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T104736_20190509T113710_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_220190509T113710_20190509T122649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T122649_20190509T131624_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_220190509T131624_20190509T140603_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T140603_20190509T145537_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_220190509T145537_20190509T154517_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T154517_20190509T163451_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_220190509T163451_20190509T172430_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_220190509T172430_20190509T181405_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_220190509T181405_20190509T190344_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T190344_20190509T195318_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_220190509T195318_20190509T204257_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_220190509T204257_20190509T213232_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_220190509T213232_20190509T222211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T222211_20190509T231145_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_220190509T231145_20190510T000124_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

#### 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. 29

Number of products with errors:	Number of	products	with errors:	
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Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190509T000235_20190509T005214_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_220190509T005214_20190509T014149_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T014149_20190509T023128_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T023128_20190509T032102_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T032102_20190509T041042_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_220190509T041042_20190509T050016_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T050016_20190509T054955_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T054955_20190509T063930_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_220190509T063930_20190509T072909_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T072909_20190509T081843_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T081843_20190509T090822_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T090822_20190509T095757_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T095757_20190509T104736_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_220190509T104736_20190509T113710_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T113710_20190509T122649_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T122649_20190509T131624_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T131624_20190509T140603_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_220190509T140603_20190509T145537_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T145537_20190509T154517_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_220190509T154517_20190509T163451_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T163451_20190509T172430_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T172430_20190509T181405_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T181405_20190509T190344_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_220190509T190344_20190509T195318_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T195318_20190509T204257_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T204257_20190509T213232_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T213232_20190509T222211_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_220190509T222211_20190509T231145_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190509T231145_20190510T000124_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 27

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20190509T000235_20190509T005214_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T005214_20190509T014149_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T014149_20190509T023128_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T023128_20190509T032102_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T032102_20190509T041042_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T041042_20190509T050016_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T050016_20190509T054955_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T054955_20190509T063930_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T063930_20190509T072909_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190509T072909_20190509T081843_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T081843_20190509T090822_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T090822_20190509T095757_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220190509T095757_20190509T104736_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T104736_20190509T113710_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T113710_20190509T122649_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T122649_20190509T131624_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T131624_20190509T140603_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T145537_20190509T154517_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T154517_20190509T163451_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T163451_20190509T172430_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T172430_20190509T181405_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T181405_20190509T190344_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T190344_20190509T195318_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T195318_20190509T204257_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T204257_20190509T213232_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T213232_20190509T2222211_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190509T231145_20190510T000124_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.