

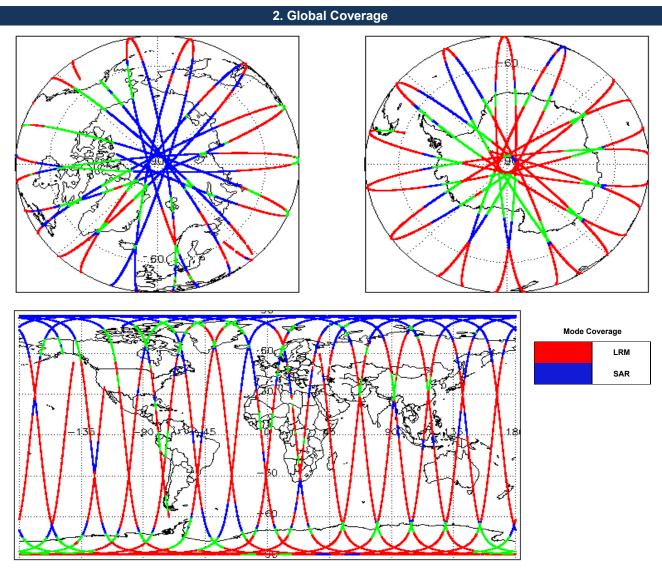
# **IDEAS+ Daily Report for IOP data:**

# 24/01/2019

	1. Overview				
		Check	L1 & L2	P2P	
Report Production:	28-Jan-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal	
Processor Used:	Crave Set Occar Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal	
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal	
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal	
Dala Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal	
		Auxiliary Data File Usage Check	Nominal	Nominal	
		Auxiliary Correction Error Check	Nominal	Nominal	
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal	
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7	
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8	

#### Mission / Instrument News 23-Jan-2019 None

24-Jan-2019 SIRAL unavailability on 24-Jan-2019 from 11:57:43 to 12:16:02 due to planned on-board maintanance. 25-Jan-2019 Nothing planned



# 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 pro-	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.	
Number of products with errors: 0			
4.4 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag for each measurement recor	rd. The bit value of this flag indicat	es 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 measurer	ment record. The bit value of this f	lag indicates any problems when set.	
Attitude Correction Missing: This flag is currently set in error for IOPR produ	ucts due to a configuration issue.	This is being investigated and will be updated in the next SW update.	
Number of products with errors: 0			
4.6 L1B Waveform Group Data Check			
CryoSat L1B data includes a waveform data flag for each measurement recom	ç	es 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: 15			
Number of products with errors: 15			
	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_20190124T064324_20190124T065246_C001		· · · · ·	
Product CS_OFFL_SIR_IOPM1B_20190124T064324_20190124T065246_C001 CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T012508_C001	Loss of Echo	The tracking echo is missing for one or more records	
Product CS_OFFL_SIR_IOPM1B_20190124T064324_20190124T065246_C001 CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T012508_C001 CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_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_20190124T064324_20190124T065246_C001 CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T012508_C001 CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001 CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T085416_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_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T012508_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T0655416_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T085416_C001           CS_OFFL_SIR_IOPN1B_20190124T0824102219_20190124T102251_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	
Number of products with errors:         15           Product            CS_OFFL_SIR_IOPM1B_20190124T064324_20190124T065246_C001            CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T06120508_C001            CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001            CS_OFFL_SIR_IOPN1B_20190124T064912_20190124T065416_C001            CS_OFFL_SIR_IOPN1B_20190124T102219_20190124T102251_C001            CS_OFFL_SIR_IOPN1B_20190124T112256_20190124T112326_C001            CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001            CS_OFFL_SIR_IOPN1B_20190124T112356_20190124T112326_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_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T012508_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T064912_20190124T085416_C001           CS_OFFL_SIR_IOPN1B_20190124T102219_20190124T102251_C001           CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001           CS_OFFL_SIR_IOPN1B_20190124T183537_20190124T183657_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_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T0612508_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T064912_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T085416_C001           CS_OFFL_SIR_IOPN1B_20190124T102219_20190124T102251_C001           CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001           CS_OFFL_SIR_IOPN1B_20190124T183537_20190124T183657_C001           CS_OFFL_SIR_IOPN1B_20190124T194213_20190124T194508_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_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T065416_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T085416_C001           CS_OFFL_SIR_IOPN1B_20190124T102219_20190124T102251_C001           CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001           CS_OFFL_SIR_IOPN1B_20190124T183537_20190124T183657_C001           CS_OFFL_SIR_IOPN1B_20190124T194213_20190124T194508_C001           CS_OFFL_SIR_IOPN1B_20190124T215141_20190124T215804_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_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T085416_C001           CS_OFFL_SIR_IOPN1B_20190124T102219_20190124T102251_C001           CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001           CS_OFFL_SIR_IOPN1B_20190124T183537_20190124T183657_C001           CS_OFFL_SIR_IOPN1B_20190124T194213_20190124T194508_C001           CS_OFFL_SIR_IOPN1B_20190124T215141_20190124T215804_C001           CS_OFFL_SIR_IOPN1B_20190124T233100_20190124T233507_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	
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Product           CS_OFFL_SIR_IOPM1B_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T065251_C001           CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001           CS_OFFL_SIR_IOPN1B_20190124T183537_20190124T183657_C001           CS_OFFL_SIR_IOPN1B_20190124T194213_20190124T194508_C001           CS_OFFL_SIR_IOPN1B_20190124T215141_20190124T215804_C001           CS_OFFL_SIR_IOPN1B_20190124T233100_20190124T233507_C001           CS_OFFL_SIR_IOPN1B_20190124T234245_20190124T23320_C001           CS_OFFL_SIR_IOPN1B_20190124T232226_20190124T003932_C001           CS_OFFL_SIR_IOPR1B_20190124T022518_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_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T085416_C001           CS_OFFL_SIR_IOPN1B_20190124T102219_20190124T102251_C001           CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001           CS_OFFL_SIR_IOPN1B_20190124T183537_20190124T1183657_C001           CS_OFFL_SIR_IOPN1B_20190124T194213_20190124T194508_C001           CS_OFFL_SIR_IOPN1B_20190124T215141_20190124T23804_C001           CS_OFFL_SIR_IOPN1B_20190124T233100_20190124T233507_C001           CS_OFFL_SIR_IOPN1B_20190124T234245_20190124T23420_C001	Loss of Echo	The tracking echo is missing for one or more records         The tracking e	
Product           CS_OFFL_SIR_IOPM1B_20190124T064324_20190124T065246_C001           CS_OFFL_SIR_IOPN1B_20190124T012155_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T061039_20190124T061217_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T065416_C001           CS_OFFL_SIR_IOPN1B_20190124T084912_20190124T085416_C001           CS_OFFL_SIR_IOPN1B_20190124T102219_20190124T102251_C001           CS_OFFL_SIR_IOPN1B_20190124T112156_20190124T112326_C001           CS_OFFL_SIR_IOPN1B_20190124T194503_7_20190124T183657_C001           CS_OFFL_SIR_IOPN1B_20190124T194213_20190124T194508_C001           CS_OFFL_SIR_IOPN1B_20190124T215141_20190124T215804_C001           CS_OFFL_SIR_IOPN1B_20190124T233100_20190124T233507_C001           CS_OFFL_SIR_IOPN1B_20190124T234245_20190124T023932_C001           CS_OFFL_SIR_IOPN1B_20190124T003725_20190124T003932_C001           CS_OFFL_SIR_IOPR1B_20190124T022326_20190124T022518_C001           CS_OFFL_SIR_IOPR1B_20190124T0235653_20190124T040536_C001           CS_OFFL_SIR_IOPR1B_20190124T023563_20190124T040536_C001           CS_OFFL_SIR_IOPR1B_20190124T035653_20190124T040536_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	

#### 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).

0

Number of products with errors:

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

## 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. 80

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190124T003554_20190124T003725_C001	Ocean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190124T010815_20190124T010938_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190124T011138_20190124T011428_C001	Ocean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20190124T011628\_20190124T012154\_C001 CS OFFL SIR IOPM 2 20190124T012748 20190124T015000 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T015246\_20190124T020140\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T021445\_20190124T021721\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T023357\_20190124T025345\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T025552\_20190124T030052\_C001 CS OFFL SIR IOPM 2 20190124T030656 20190124T033951 C001 CS OFFL SIR IOPM 2 20190124T040536 20190124T042829 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T043804\_20190124T043956\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T044639\_20190124T050419\_C001 CS OFFL SIR IOPM 2 20190124T050902 20190124T051739 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T053205\_20190124T053451\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T053638\_20190124T055301\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T055515\_20190124T060951\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T061659\_20190124T061908\_C001 CS OFFL SIR IOPM 2 20190124T062555 20190124T064123 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T064324\_20190124T065246\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T072103\_20190124T073047\_C001 CS OFFL SIR IOPM 2 20190124T073723 20190124T075156 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T075452\_20190124T080312\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T080528\_20190124T082218\_C001 CS OFFL SIR IOPM 2 20190124T082442 20190124T082654 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T090412\_20190124T093119\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T093348\_20190124T093548\_C001 CS OFFL SIR IOPM 2 20190124T093632 20190124T094135 C001 CS OFFL SIR IOPM 2 20190124T094427 20190124T100958 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T104148\_20190124T105256\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T105834\_20190124T110907\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T111313\_20190124T111354\_C001 CS OFFL SIR IOPM 2 20190124T111555 20190124T112156 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T112327\_20190124T115223\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T121602\_20190124T124846\_C001 CS OFFL SIR IOPM 2 20190124T125503 20190124T130026 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T130227\_20190124T130821\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T133838\_20190124T134209\_C001 CS OFFL SIR IOPM 2 20190124T135442 20190124T140306 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T140551\_20190124T142806\_C001 CS OFFL SIR IOPM 2 20190124T143358 20190124T143506 C001 CS OFFL SIR IOPM 2 20190124T143511 20190124T143918 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T144125\_20190124T145424\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T145612\_20190124T150055\_C001 CS OFFL SIR IOPM 2 20190124T153322 20190124T160647 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T160908\_20190124T161403\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T161424\_20190124T161749\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T162504\_20190124T165631\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T165749\_20190124T165843\_C001 CS OFFL SIR IOPM 2 20190124T165843 20190124T170056 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T171650\_20190124T172345\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T172939\_20190124T174600\_C001 CS OFFL SIR IOPM 2 20190124T174749 20190124T175301 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T175338\_20190124T175511\_C001

Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status

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GS_OFFL_SIR_JOPM_2_20190124T180304_20190124T18043_C001         Decan Range Averaging Status         The Oceans. Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T181652_20190124T18043_C001         Ocean Range Averaging Status         The Oceans. Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T18025_20190124T190245_C001         Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T19027_D0124T190245_C001         Decan Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T19027_D0124T190312_C001         Decan Range Averaging Status         The Ice Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T190241_20121190241         Coean Range Averaging Status         The Ice Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T195749_20190124T19641_C001         Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T195749_20190124T210023_C001         Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_JOPM_2_20190124T210422_0190124T210422_0001         Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more records. <th></th> <th></th> <th></th>			
CS_OFFL_SIR_JOPM_2_201001241183827_201001241193845_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124119325_00101241193232_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124119325_0100124119332_0001       Ceean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124119325_0100124119332_0001       Cee Range Averaging Status       The Ice Cange Range Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124119325_0100124119333_0001       Cee Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124119350_01010124119351_0001       Cee Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124119574_0201001241210422_001       Ceean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124120124_01001241210422_001       Ceean Range Averaging Status       The Ice Cange Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124120124_01001241211192_0001       Ceean Range Averaging Status       The Ice Cange Averaging Status Flag has been set for one or more         CS_OFFL_SIR_JOPM_2_20100124120124_0001241211118_0001       Ceean Range Averaging Status </td <td>CS_OFFL_SIR_IOPM_2_20190124T180304_20190124T181644_C001</td> <td>Ocean Range Averaging Status</td> <td></td>	CS_OFFL_SIR_IOPM_2_20190124T180304_20190124T181644_C001	Ocean Range Averaging Status	
Cis_OFFL_SIR_IOPM_2_20190124T19252_20190124T192546_0001         Obean Range Averaging Status         records.           CS_OFFL_SIR_IOPM_2_20190124T19215_20190124T19255_20190124T19353_0001         tex Range Averaging Status         The Lice Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T19353_0001         tex Range Averaging Status         The Lice Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T194509_20190124T194212_0001         Ocean Range Averaging Status         The Coan Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T194509_20190124T194212_0001         Ocean Range Averaging Status         The Coan Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T194509_20190124T194212_0001         Ocean Range Averaging Status         The Coan Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T194549_20190124T210422_0001         Ocean Range Averaging Status         The Ioe Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T19452_0190124T21142_0001         tex Range Averaging Status         The Ioe Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T2142142_0190124T214548_0001         Ocean Range Averaging Status         The Ioe Range Averaging Status Flag has been set for one or more ecords.           CS_OFFL_SIR_IOPM_2_20190124T224527_20190124	CS_OFFL_SIR_IOPM_2_20190124T181858_20190124T183043_C001	Ocean Range Averaging Status	
CS_OFH_SIR_OPM_2_20190124119212_201901241193212_2001         Cocan Range Averaging Status         The Cice Range Averaging Status Fiegh Ase been set for one or more records.           CS_OFFL_SIR_IOPM_2_0190124119212_201901241193212_2001         coc Range Averaging Status         The Cice Range Averaging Status Fiegh Ase been set for one or more records.           CS_OFFL_SIR_IOPM_2_01901241194212_201901241194212_2001         Ocean Range Averaging Status         The Cice Range Averaging Status Fiegh Ase been set for one or more records.           CS_OFFL_SIR_IOPM_2_01901241194212_201901241194212_2001         Ocean Range Averaging Status         The Cice Range Averaging Status Fiegh has been set for one or more records.           CS_OFFL_SIR_IOPM_2_01901241195419_201901241210422_2001         Ocean Range Averaging Status         The Cice Range Averaging Status Fiegh has been set for one or more records.           CS_OFFL_SIR_IOPM_2_0190124121042_20190124121142_2001         Ocean Range Averaging Status         The Cice Range Averaging Status Fiegh has been set for one or more records.           CS_OFFL_SIR_IOPM_2_0190124121144_201901241211142_001         Ice Range Averaging Status         The Cice Range Averaging Status Fiegh has been set for one or more records.           CS_OFFL_SIR_IOPM_2_0190124121144_201901241211144_2001         Ice Range Averaging Status         The Cice Range Averaging Status Fiegh has been set for one or more records.           CS_OFFL_SIR_IOPM_2_01901241221452_0190124121144_2001         Ice Range Averaging Status         The Ice Range Averaging Status Fiegh has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20190124T185827_20190124T190845_C001	Ocean Range Averaging Status	
LS_OFFL_SIR_IOFM_2_201001241192/12_201001241193251_201001       Ide Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T194018_02190124T194212_C001       Ocean Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T194018_02190124T194212_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T194509_20190124T204230_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T20142_019124T21142_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T211436_010124T211142_C001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T21142_0190124T21144_C001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T21142_0190124T214454_C001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_0190124T21402_20190124T2145454_C001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_019	CS_OFFL_SIR_IOPM_2_20190124T191025_20190124T192454_C001	Ocean Range Averaging Status	0 0 0
CS_OFFL_SIR_IOPM_2_20190124T1942162001       Ocean Range Averaging Status       jecords.         CS_OFFL_SIR_IOPM_2_20190124T194408_20190124T194212_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T194509_20190124T194509_20190124T200236_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T200246_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T20745_20190124T210422_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T211744_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T211744_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T221809_20190124T221804_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225042_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225040_C001       Ice Range Averaging Status       The	CS_OFFL_SIR_IOPM_2_20190124T192712_20190124T193212_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190124T19446_20190124T195411_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T19540_20190124T195411_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T195749_20190124T200236_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T201242_20190124T210422_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T210745_20190124T211129_C001       Ice Range Averaging Status       The Ice Range Averaging Status       File Ice Range Averaging Status         CS_OFFL_SIR_IOPM_2_20190124T211745_20190124T211144_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T2211744_20190124T214548_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T221609_20190124T224349_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225425_20190124T225424_20001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225425_20190124T225446_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225416_C001 <td>CS_OFFL_SIR_IOPM_2_20190124T193251_20190124T193353_C001</td> <td>Ice Range Averaging Status</td> <td></td>	CS_OFFL_SIR_IOPM_2_20190124T193251_20190124T193353_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190124119549_20190124119541_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T204124_20190124T20422_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T210745_20190124T211129_C001       Ice Range Averaging Status       The Ioean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T211136_20190124T211144_C001       Ice Range Averaging Status       The Ioean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T221849_20190124T2214548_C001       Ocean Range Averaging Status       The Ioean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T221849_20190124T2214548_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T22509_20190124T225042_C001       Ice Range Averaging Status       The Ioean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T22504_20190124T225042_C001       Ice Range Averaging Status       The Ioean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T22504_20190124T225416_C001       Ice Range Averaging Status       The Ioean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T230846_C001	CS_OFFL_SIR_IOPM_2_20190124T194048_20190124T194212_C001	Ocean Range Averaging Status	
US_0FFL_SIR_IOPM_2_201901241200421200326_0001       Ocean Range Averaging Status       records.         CS_0FFL_SIR_IOPM_2_2019012412104124_201901241210422_0001       tee Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241211136_201901241211144_0001       tee Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241211144_20190124121144_0001       tee Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241221009_2019012412214548_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241221009_201901241222604_0001       tee Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241225049_201901241225042_0001       tee Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241225049_201901241225046_0001       tee Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241225049_201901241225046_0001       tee Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_0FFL_SIR_IOPM_2_201901241225049_201901241223040       coean Range Averaging Stat	CS_OFFL_SIR_IOPM_2_20190124T194509_20190124T195411_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201901241200124 201901241210122_0001       Coean Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T211136_20190124T211144_C001       tce Range Averaging Status       The Loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T211744_20190124T2114468_C001       Ocean Range Averaging Status       The Coean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T221809_20190124T224349_C001       Ocean Range Averaging Status       The Coean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225042_C001       tce Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225042_C001       tce Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225042_C001       tce Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225049_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T223046_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201901	CS_OFFL_SIR_IOPM_2_20190124T195749_20190124T200236_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201901241210749_201901241211144_C001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T211136_20190124T211144_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T211744_20190124T214548_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T224527_20190124T225042_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225416_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225751_20190124T235416_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225751_20190124T230846_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T23059_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T21403356_20190124T033059_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T111452_20190124T111312_C001       Ice	CS_OFFL_SIR_IOPM_2_20190124T204124_20190124T210422_C001	Ocean Range Averaging Status	0 0 0
CS_OFFL_SIR_LOPM_2_201901241211144_201901241211144_C001       Ice Range Averaging Status       records.         CS_OFFL_SIR_LOPM_2_20190124T221809_20190124T224349_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_LOPM_2_20190124T221809_20190124T224349_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_LOPM_2_20190124T224527_20190124T225042_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_LOPM_2_20190124T22571_20190124T225416_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T22575_20190124T2230846_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T230846_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T203356_20190124T003400_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T03325_20190124T013348_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T0111152_20190124T0134348_C001	CS_OFFL_SIR_IOPM_2_20190124T210745_20190124T211129_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOFM_2_20190124121144_201901241213368_L001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOFM_2_20190124T221809_20190124T22349_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T2254257_20190124T225042_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T225049_20190124T225416_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T225751_20190124T230846_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOFM_2_20190124T231425_20190124T233059_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T003356_20190124T003400_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T003356_20190124T003348_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T0030412_20190124T01650_C001       Oce	CS_OFFL_SIR_IOPM_2_20190124T211136_20190124T211144_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201901241221809_201901241224349_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225042_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225046_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225751_20190124T230846_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T233059_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T033356_20190124T003400_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T093326_20190124T093348_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T0141220190124T211650_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001       Ocea	CS_OFFL_SIR_IOPM_2_20190124T211744_20190124T214548_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190124122452/_201901241225049_201901241225042_C001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225416_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T225751_20190124T230846_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T233059_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T003356_20190124T003400_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T003326_20190124T093348_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T030412_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T030656_C001	CS_OFFL_SIR_IOPM_2_20190124T221809_20190124T224349_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201901241225751_20190124T223846_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190124T223751_20190124T233059_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T203356_20190124T003366_20190124T003366_20190124T003366_20190124T003366_20190124T003366_20190124T003366_20190124T003348_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T093229_20190124T093348_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T1111312_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T211444_20190124T211650_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T0505420_20190124T0505901_C001       Ocean Range Averaging Status       The Ocean	CS_OFFL_SIR_IOPM_2_20190124T224527_20190124T225042_C001	Ice Range Averaging Status	0 00 0
CS_OFFL_SIR_IOPM_2_201901241223751_201901241230846_C001Ocean Range Averaging Statusrecords.CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T233059_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190124T003356_20190124T003400_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190124T093229_20190124T093348_C001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190124T211444_20190124T211650_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030666_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPR_2_20190124T2724350_20190124T075256_C001Ocean Range Averaging StatusThe Ocean Range Averaging S	CS_OFFL_SIR_IOPM_2_20190124T225049_20190124T225416_C001	Ice Range Averaging Status	
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CS_OFFL_SIR_IOPN_2_20190124T003356_20190124T003400_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPN_2_20190124T093229_20190124T093348_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T211444_20190124T211650_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075057_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T224350_201190124T224352_C001	CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T233059_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190124T211444_20190124T211650_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T224350_201190124T224352_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.   <	CS_OFFL_SIR_IOPN_2_20190124T003356_20190124T003400_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOPN_2_20190124T211444_20190124T211650_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T224350_20190124T224352_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20190124T093229_20190124T093348_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T030656_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T224350_201190124T224352_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T050901_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20190124T211444_20190124T211650_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status         CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status	CS_OFFL_SIR_IOPR_2_20190124T030412_20190124T030656_C001	Ocean Range Averaging Status	0 00 0
CS_OFFL_SIR_IOPR_2_2019012410/5157_2019012410/5256_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20190124T050420_20190124T050901_C001	Ocean Range Averaging Status	
US DEEL SIR IDPR 2 201901241224350 201901241224352 CUU1 UCean Range Averaging Status	CS_OFFL_SIR_IOPR_2_20190124T075157_20190124T075256_C001	Ocean Range Averaging Status	
	CS_OFFL_SIR_IOPR_2_20190124T224350_20190124T224352_C001	Ocean Range Averaging Status	

## 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. 77

Nu	mber	of	prod	ucts	with	errors:	
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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190124T003554_20190124T003725_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_20190124T011138_20190124T011428_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_20190124T011628_20190124T012154_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190124T012748_20190124T015000_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_20190124T015246_20190124T020140_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_20190124T021445_20190124T021721_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_20190124T023357_20190124T025345_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_20190124T025552_20190124T030052_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190124T030656_20190124T033951_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_20190124T040536_20190124T042829_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_20190124T043804_20190124T043956_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190124T044639_20190124T050419_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_20190124T050902_20190124T051739_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_20190124T053205_20190124T053451_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190124T053638_20190124T055301_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_20190124T055515_20190124T060951_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_20190124T061659_20190124T061908_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20190124T061956\_20190124T062411\_C001 CS OFFL SIR IOPM 2 20190124T062555 20190124T064123 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T064324\_20190124T065246\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T072103\_20190124T073047\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T073723\_20190124T075156\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T075452\_20190124T080312\_C001 CS OFFL SIR IOPM 2 20190124T080528 20190124T082218 C001 CS OFFL SIR IOPM 2 20190124T082442 20190124T082654 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T090412\_20190124T093119\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T093632\_20190124T094135\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T094427\_20190124T100958\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T104148\_20190124T105256\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T105834\_20190124T110907\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T111313\_20190124T111354\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T111555\_20190124T112156\_C001 CS OFFL SIR IOPM 2 20190124T112327 20190124T115223 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T121602\_20190124T124846\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T125503\_20190124T130026\_C001 CS OFFL SIR IOPM 2 20190124T130227 20190124T130821 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T133838\_20190124T134209\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T135442\_20190124T140306\_C001 CS OFFL SIR IOPM 2 20190124T140551 20190124T142806 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T143358\_20190124T143506\_C001 CS OFFL SIR IOPM 2 20190124T143511 20190124T143918 C001 CS OFFL SIR IOPM 2 20190124T144125 20190124T145424 C001 CS OFFL SIR IOPM 2 20190124T145612 20190124T150055 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T153322\_20190124T160647\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T160908\_20190124T161403\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T161424\_20190124T161749\_C001 CS OFFL SIR IOPM 2 20190124T162504 20190124T165631 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T165843\_20190124T170056\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T171650\_20190124T172345\_C001 CS OFFL SIR IOPM 2 20190124T172939 20190124T174600 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T174749\_20190124T175301\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T175338\_20190124T175511\_C001 CS OFFL SIR IOPM 2 20190124T180304 20190124T181644 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T181858\_20190124T183043\_C001 CS OFFL SIR IOPM 2 20190124T185827 20190124T190845 C001 CS OFFL SIR IOPM 2 20190124T191025 20190124T192454 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T192712\_20190124T193212\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T194048\_20190124T194212\_C001 CS OFFL SIR IOPM 2 20190124T194509 20190124T195411 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T195749\_20190124T200236\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T204124\_20190124T210422\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T210745\_20190124T211129\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T211136\_20190124T211144\_C001 CS OFFL SIR IOPM 2 20190124T211744 20190124T214548 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T221809\_20190124T224349\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T224527\_20190124T225042\_C001 CS OFFL SIR IOPM 2 20190124T225049 20190124T225416 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190124T225751\_20190124T230846\_C001 Ice Backscatter Averaging Status

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

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

Ice Backscatter Averaging Status

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Backscatter Averaging Status Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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more records

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

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

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

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

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

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

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

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

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

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

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

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

CS_OFFL_SIR_IOPM_2_20190124T231425_20190124T233059_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_20190124T003356_20190124T003400_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_20190124T093229_20190124T093348_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190124T111152_20190124T111312_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190124T211444_20190124T211650_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_20190124T030412_20190124T030656_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_20190124T050420_20190124T050901_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_20190124T075157_20190124T075256_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_20190124T224350_20190124T224352_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: 54

## 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. 0 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: 0

## 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: 0

## 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. 28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190124T003127_20190124T012101_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_220190124T012101_20190124T021040_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T021040_20190124T030015_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_220190124T030015_20190124T034954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T034954_20190124T043928_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_220190124T043928_20190124T052907_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T052907_20190124T061842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T061842_20190124T070821_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_220190124T070821_20190124T075755_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T075755_20190124T084734_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_220190124T084734_20190124T093709_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	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_220190124T102648_20190124T111623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	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_220190124T120602_20190124T125536_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	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_220190124T134515_20190124T143450_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_220190124T143450_20190124T152429_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_220190124T152429_20190124T161403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T161403_20190124T170342_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_220190124T170342_20190124T175317_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_220190124T175317_20190124T184256_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_220190124T184256_20190124T193230_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_220190124T193230_20190124T202209_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T202209_20190124T211144_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T211144_20190124T220123_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_220190124T220123_20190124T225057_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_220190124T225057_20190124T234036_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.

# 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20190124T003127_20190124T012101_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_20190124T012101_20190124T021040_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_20190124T021040_20190124T030015_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_20190124T030015_20190124T034954_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190124T034954_20190124T043928_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_20190124T043928_20190124T052907_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190124T052907_20190124T061842_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_20190124T061842_20190124T070821_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_220190124T070821_20190124T075755_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_20190124T075755_20190124T084734_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_20190124T084734_20190124T093709_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190124T093709_20190124T102648_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_20190124T102648_20190124T111623_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190124T111623_20190124T120602_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_220190124T120602_20190124T125536_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190124T125536_20190124T134515_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_220190124T134515_20190124T143450_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_20190124T143450_20190124T152429_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_220190124T152429_20190124T161403_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190124T161403_20190124T170342_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_220190124T170342_20190124T175317_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_220190124T175317_20190124T184256_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_220190124T184256_20190124T193230_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_220190124T193230_20190124T202209_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_220190124T202209_20190124T211144_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_220190124T211144_20190124T220123_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_220190124T220123_20190124T225057_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_220190124T225057_20190124T234036_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

## 6.8 P2P Ocean Retracking Quality Check

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

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_220190124T003127_20190124T012101_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T012101_20190124T021040_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T021040_20190124T030015_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T030015_20190124T034954_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T034954_20190124T043928_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T043928_20190124T052907_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T052907_20190124T061842_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T061842_20190124T070821_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T070821_20190124T075755_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T075755_20190124T084734_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T084734_20190124T093709_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T093709_20190124T102648_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T102648_20190124T111623_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T111623_20190124T120602_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T120602_20190124T125536_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T125536_20190124T134515_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T134515_20190124T143450_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T143450_20190124T152429_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T152429_20190124T161403_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T161403_20190124T170342_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T170342_20190124T175317_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T175317_20190124T184256_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T184256_20190124T193230_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T193230_20190124T202209_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T220123_20190124T225057_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T225057_20190124T234036_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190124T234036_20190125T003011_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.