

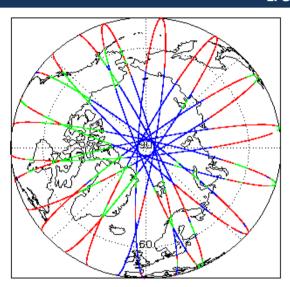
# 1. Overview

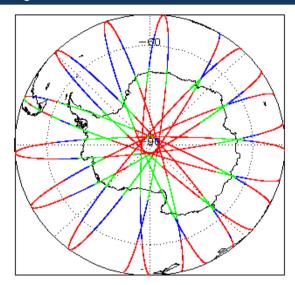
Report Production:	15-Oct-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP)	

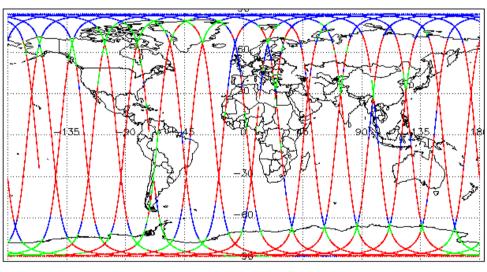
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
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	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

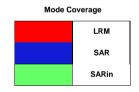
Mission / Instr	Mission / Instrument News	
11-Oct-2021	None	
12-Oct-2021	None	
13-Oct-2021 SIRAL Unavailability due to OCM on 13/10/2021 from 22:50:01 to 23:48:25		

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

# 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.

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors: 0

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

(

#### 4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211012T083433_20211012T083919_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211012T003444_20211012T003636_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211012T050411_20211012T051333_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211012T171904_20211012T172836_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T030039_20211012T030605_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T070951_20211012T071216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T075238_20211012T075428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T152135_20211012T152247_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T165913_20211012T170202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T175447_20211012T180053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T183627_20211012T184046_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211012T235403_20211012T235607_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T002542_20211012T003350_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T124751_20211012T125136_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T130133_20211012T130537_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T133214_20211012T133514_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T133514_20211012T133945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T172931_20211012T173112_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T184047_20211012T184753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T190210_20211012T190812_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T201910_20211012T202749_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T211628_20211012T211855_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211012T220358_20211012T220502_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

# 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

0

# 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

### 5.4 L2 Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors 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.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed  Mean Sea Surface (1), Total Geocentric	Description
CS_OFFL_SIR_IOPM_2_20211012T053505_20211012T055254_C001	Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and all tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20211012T011500_20211012T011625_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T012135_20211012T012443_C001	Mean Sea Surtace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES). Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20211012T025545_20211012T025833_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T030039_20211012T030605_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T035130_20211012T035556_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T043514_20211012T043749_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T053031_20211012T053142_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T060705_20211012T060854_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20211012T061231_20211012T061603_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T070951_20211012T071216_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T075238_20211012T075428_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T080245_20211012T080506_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T084951_20211012T085416_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T103156_20211012T103635_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T111213_20211012T111550_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T125136_20211012T125455_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T134222_20211012T134331_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T143912_20211012T144020_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T152135_20211012T152247_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T165913_20211012T170202_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T175447_20211012T180053_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T192523_20211012T192758_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T193423_20211012T193733_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211012T201521_20211012T201909_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211012T211511_20211012T211628_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211012T002542_20211012T003350_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOPR_2_20211012T004328_20211012T004704_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211012T020441_20211012T021126_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T021126_20211012T021353_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T034600_20211012T035020_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T035020_20211012T035130_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T052401_20211012T052646_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211012T052646_20211012T053031_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T064337_20211012T064931_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211012T070337_20211012T070951_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T084516_20211012T084950_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T102326_20211012T103156_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T120310_20211012T121057_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T134331_20211012T135120_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T152247_20211012T153004_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T170203_20211012T170921_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T184047_20211012T184753_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T201910_20211012T202749_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T215603_20211012T220343_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T233537_20211012T234159_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211012T234159_20211012T234354_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211012T083433_20211012T083919_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.
- > OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211011T235020_20211012T002237_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T002333_20211012T002406_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T002438_20211012T002515_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T002518_20211012T002542_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20211012T003444_20211012T003636_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T005509_20211012T011056_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T011625_20211012T012135_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T012833_20211012T020354_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T021353_20211012T021554_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T023126_20211012T024904_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T025833_20211012T030039_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T030817_20211012T034308_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T035557_20211012T041449_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T041553_20211012T042933_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T043750_20211012T043949_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T044104_20211012T044451_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T044727_20211012T050209_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T050411_20211012T051333_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T053505_20211012T055254_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T061603_20211012T062353_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T062709_20211012T064115_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T064931_20211012T065034_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T071438_20211012T071505_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T071536_20211012T071750_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T071914_20211012T075050_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T075428_20211012T075641_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T075657_20211012T080245_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T080703_20211012T083052_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T090214_20211012T092944_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T093639_20211012T094105_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Reguer and Backsonstein Caulally  ESC CHEPL. SRF. JOPPL 2, 202110127114519, 202110127112117, CO201  COCCO Administer Reguer, CARRA, COVID- and Backsonstein Caulally  CR. JOPPL 2, 20211012712117, 202110127112117, CO201  CR. JOPPL 2, 202110127112117, 202110127112117, CO201  CR. JOPPL 2, 202110127112117, 202110127112010, CO201  CR. JOPPL 2, 202110127112117, 202110127112010, CO201  CR. JOPPL 2, 202110127112113, 202110127112015, CO201  CR. JOPPL 2, 202110127112113, 20211012712015, CO201  CR. JOPPL 2, 202110127112113, 20211012712015, CO201  CR. JOPPL 2, 202110127122145, 20211012712015, CO201  CR. JOPPL 2, 202110127122145, 20211012712215, CO201  CR. JOPPL 2, 20211012712145, 20211012712215, CO201  CR. JOPPL 2, 202110127122145, 20211012712215, CO201  CR. JOPPL 2, 202110127122145, 20211012712215, CO201  CR. JOPPL 2, 202110127122145, 20211012712215, CO201  CR. JOPPL 2, 20211012712145, 20211012712215, CO201  CR. JOPPL 2, 202110127122145, 20211012712215, CO201  CR. JOPPL 2, 202110127124145, 20211012712215, CO201  CR. JOPPL 2, 20211012712415, 20211012712215, CO201  CR. JOPPL 2, 20211012712415, 20211012712415, CO201  CR. JOPPL 2, 20211012712414, CO201			
Col. Of Fil. SR LOPM 2 2011807110208 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110208 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110208 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110208 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110208 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110207 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110207 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110207 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110207 201107110210 DOI   Col. Of Fil. SR LOPM 2 2011807110207 20110710201 DOI   Col. Of Fil. SR LOPM 2 2011807110207 20110710201 DOI   Col. Of Fil. SR LOPM 2 2011807110207 20110710201 DOI   Col. Of Fil. SR LOPM 2 2011807110207 20110710201 DOI   Col. Of Fil. SR LOPM 2 201180710207 20110710207 DOI   Col. Of Fil. SR LOPM 2 201180710207 20110710207 DOI   Col. Of Fil. SR LOPM 2 201180710207 20110710207 DOI   Col. Of Fil. SR LOPM 2 201180710207 DOI   Col. Of Fil. SR LOPM 2 2	CS_OFFL_SIR_IOPM_2_20211012T094608_20211012T101239_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. OFT. SR. ICPN 2.2011912110502.2011912112221.C011	CS_OFFL_SIR_IOPM_2_20211012T102049_20211012T102326_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Secondary County   Secondary C	CS_OFFL_SIR_IOPM_2_20211012T103636_20211012T110732_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL SR JOPM 2 20211017112615 20211017112011 (D01)	CS_OFFL_SIR_IOPM_2_20211012T111550_20211012T112127_C001		
SIGNED SET JOHN 2. 20211012T130193_20211012T130041_C001  and Estabosomer Cashiny People Assessment Cashing People People Assessment Cashing People Peop	CS_OFFL_SIR_IOPM_2_20211012T112517_20211012T112911_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_OPM_2_X0211012T125169_20211012T130189_C000         And Basecenter Quality COOG Alternet and the criter or more more.         Coop Alternet and the criter or more more.           CS_OFFL_SR_OPM_2_X0211012T130189_20211012T130191_C001         COOG Alternet Range Coulty.         The COOG Alternet Range and Bedecenter Quality Plags have been set to rise or more except.           CS_OFFL_SR_OPM_2_X0211012T130191_C001         COOR Alternet Range. SSI4I, SWIII and Basecenter Quality Plags and Basecenter Quality Plags and Basecenter Quality.         COOG Alternet Range. SSI4I, SWIII and Basecenter Quality Plags and Basecenter Quality.           CS_OFFL_SR_OPM_2_X0211012T130192_0211012T145019_C001         COOR Alternet Range. SSI4I, SWIII and Basecenter Quality Plags and Basecenter Quality.           CS_OFFL_SR_OPM_2_X0211012T145012_0211012T145019_C001         COOR Alternet Range. SSI4I, SWIII and Basecenter Quality Plags have been set to raise or more except.           CS_OFFL_SR_OPM_2_X0211012T145019_C001         COOR Alternet Range. SSI4I, SWIII and Basecenter Quality Plags have been set to raise or more except.           CS_OFFL_SR_OPM_2_X0211012T145019_C001         COOR Alternet Range. SSI4I, SWIII and Basecenter Quality Plags have been set to raise or more except.           CS_OFFL_SR_OPM_2_X0211012T15019_C001         COOR Alternet Range. SSI4I, SWIII and Basecenter Quality Plags have been set to raise or more except.           CS_OFFL_SR_OPM_2_X0211012T15019_C001         COOR Alternet Range. SSI4I, SWIII and Basecenter Quality Plags have been set to raise or more except.           CS_OFFL_SR_OPM_2_X0211012T15019_C001         COOR Altern	CS_OFFL_SIR_IOPM_2_20211012T120023_20211012T120241_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backesster Castly  CS. OPPL_SRLOPM_2.20211012T135057_30211012T135151_C001  CS. OPPL_SRLOPM_2.20211012T135057_30211012T135151_C001  CS. OPPL_SRLOPM_2.20211012T13512_20211012T14557_C001  CS. OPPL_SRLOPM_2.20211012T14512_20211012T145152_C001  CS. OPPL_SRLOPM_2.20211012T14512_20211012T145152_C001  CS. OPPL_SRLOPM_2.20211012T14512_20211012T145131_C001  CS. OPPL_SRLOPM_2.20211012T14512_20211012T145131_C001  CS. OPPL_SRLOPM_2.20211012T14512_20211012T145131_C001  CS. OPPL_SRLOPM_2.20211012T145131_20211012T145131_C001  CS. OPPL_SRLOPM_2.20211012T145131_20211012T151500_C001  CS. OPPL_SRLOPM_2.20211012T145131_20211012T151500_C001  CS. OPPL_SRLOPM_2.20211012T145131_20211012T151500_C001  CS. OPPL_SRLOPM_2.20211012T145131_20211012T151500_C001  CS. OPPL_SRLOPM_2.20211012T151018_20211012T151500_C001  CS. OPPL_SRLOPM_2.20211012T151018_20211012T151500_C001  CS. OPPL_SRLOPM_2.20211012T151018_20211012T151500_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T151517_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T15517_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T15505_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T15505_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T15055_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T15055_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T15055_C001  CS. OPPL_SRLOPM_2.20211012T15005_20211012T15055_C001  CS. OPPL_SRLOPM_2.20211012T16056_20211012T15055_C001  CS. OPPL_SRLOPM_2.20211012T16056_20211012T15055_C001  CS. OPPL_SRLOPM_2.20211012T16056_20211012T15055_C001  CS. OPPL_SRLOPM_2.20211012T16056_20211012T15055_C001  CS.	CS_OFFL_SIR_IOPM_2_20211012T121513_20211012T124751_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
So OFFL SR JOPM 2 202110127130537 20211012713510 (2011 and specified provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the Coop Allimenter Range and Backscatter Quality Right provision for the	CS_OFFL_SIR_IOPM_2_20211012T125455_20211012T130007_C001		
and Backscanter Quality been series or on more records.  CS_OFFL_SIR_OPML2_20211012T141623_20211012T142844_C001  CS_OFFL_SIR_OPML2_20211012T1443512_20211012T142844_C001  CS_OFFL_SIR_OPML2_20211012T1443512_20211012T142841_C001  CS_OFFL_SIR_OPML2_20211012T144431_20211012T151002_C001  CS_OFFL_SIR_OPML2_20211012T144431_20211012T151002_C001  CS_OFFL_SIR_OPML2_20211012T144431_20211012T151702_C001  CS_OFFL_SIR_OPML2_20211012T151018_20211012T151702_C001  CS_OFFL_SIR_OPML2_20211012T151018_20211012T151702_C001  CS_OFFL_SIR_OPML2_20211012T151018_20211012T151702_C001  CS_OFFL_SIR_OPML2_20211012T151018_20211012T151702_C001  CS_OFFL_SIR_OPML2_20211012T151018_20211012T151702_C001  CS_OFFL_SIR_OPML2_20211012T151018_20211012T151702_C001  CS_OFFL_SIR_OPML2_20211012T151018_20211012T151018_C0011012T	CS_OFFL_SIR_IOPM_2_20211012T130537_20211012T132151_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality (COCQ Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_OPM_2_20211012T143912_20211012T143912_C001  CS_OFFL_SIR_OPM_2_20211012T14431_20211012T151002_C001  CS_OFFL_SIR_OPM_2_20211012T14431_20211012T151002_C001  CS_OFFL_SIR_OPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_OPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_OPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_OPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_OPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_OPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_OPM_2_20211012T151018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T15018_20211012T16018_2021	CS_OFFL_SIR_IOPM_2_20211012T135120_20211012T141557_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20211012T144431_20211012T151002_C001  CS_OFFL_SIR_IOPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_IOPM_2_20211012T151018_20211012T151752_C001  CS_OFFL_SIR_IOPM_2_20211012T150555_20211012T153147_C001  CS_OFFL_SIR_IOPM_2_20211012T150555_20211012T153147_C001  CS_OFFL_SIR_IOPM_2_20211012T150555_20211012T153147_C001  CS_OFFL_SIR_IOPM_2_20211012T150555_20211012T153150_C001  CS_OFFL_SIR_IOPM_2_20211012T150555_20211012T153150_C001  CS_OFFL_SIR_IOPM_2_20211012T150555_20211012T155054_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T155054_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T150554_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T150555_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T150555_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T150555_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T150555_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T160501_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T160501_C001  CS_OFFL_SIR_IOPM_2_20211012T150558_20211012T160501_C001  CS_OFFL_SIR_IOPM_2_20211012T16058_20211012T16000_C001  CS_OFFL_SIR_IOPM_2_20211012T16058_20211012T16000_C001  CS_OFFL_SIR_IOPM_2_20211012T16058_20211012T16000_C001  CS_OFFL_SIR_IOPM_2_20211012T16058_20211012T16000_C001  CS_OFFL_SIR_IOPM_2_20211012T16058_20211012T16000_C001  CS_OFFL_SIR_IOPM_2_20211012T16058_20211012T16000_C001  CS_OFFL_SIR_IOPM_2_20211012T16058_20211012T16000_C001  CC_OFFL_SIR_IOPM_2_20211012T16008_20211012T16000_C001  CC_OFFL_S	CS_OFFL_SIR_IOPM_2_20211012T141623_20211012T142644_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T15095_CO1  CS_OFFL_SIR_JOPM_2_20211012T15098_20211012T16000_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T16000_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T16000_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T16000_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T16000_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T16000_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CS_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CC_OGA Mimeter Range Quality, OCOGA Mimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OFFL_SIR_JOPM_2_20211012T16088_20211012T160800_CO1  CC_OGA Mimeter Range Quality, OCOGA Mimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OFFL_SIR_JOPM_2_20211012T16088_20211012T16335_CO1  CC_OGA Mimeter Range Quality, OCOGA Mimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OGA Mimeter Range Quality, OCOGA Mimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OFFL_SIR_JOPM_2_20211012T16084_20211012T160800_CO1  CC_OGA Mimeter Range Quality, OCOGA Mimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OFFL_SIR_JOPM_2_20211012T1608	CS_OFFL_SIR_IOPM_2_20211012T143512_20211012T143912_C001		
And the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_JOPM_2_20211012T153055_20211012T153147_CO01  CS_OFFL_SIR_JOPM_2_20211012T153150_20211012T154431_CO01  CS_OFFL_SIR_JOPM_2_20211012T153150_20211012T154431_CO01  CS_OFFL_SIR_JOPM_2_20211012T154912_20211012T155054_CO01  CS_OFFL_SIR_JOPM_2_20211012T155056_20211012T155054_CO01  CS_OFFL_SIR_JOPM_2_20211012T155056_20211012T150564_CO01  CS_OFFL_SIR_JOPM_2_20211012T160259_20211012T160050_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160050_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160050_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160050_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160050_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160050_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160050_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160550_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160556_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160556_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160556_CO01  CS_OFFL_SIR_JOPM_2_20211012T160556_20211012T160556_CO01  CS_OFFL_SIR_JOPM_2_20211012T1605646_20211012T160566_CO01  CS_OFFL_SIR_JOPM_2_20211012T1605646_20211012T160566_CO01  CS_OFFL_SIR_JOPM_2_20211012T1605646_20211012T160566_CO01  CS_OFF	CS_OFFL_SIR_IOPM_2_20211012T144431_20211012T151002_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20211012T153150_20211012T154431_C001  CS_OFFL_SIR_IOPM_2_20211012T153150_20211012T15451_C001  CS_OFFL_SIR_IOPM_2_20211012T154912_20211012T155054_C001  CS_OFFL_SIR_IOPM_2_20211012T154912_20211012T155054_C001  CS_OFFL_SIR_IOPM_2_20211012T155058_20211012T160215_C001  CS_OFFL_SIR_IOPM_2_20211012T155058_20211012T160215_C001  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160215_C001  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160215_C001  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160250_C001  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160250_C001  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160250_C001  CS_OFFL_SIR_IOPM_2_20211012T160250_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IOPM_2_20211012T17030_C001  CS_OFFL_SIR_IO	CS_OFFL_SIR_IOPM_2_20211012T151018_20211012T151752_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COGO Altimeter Range and Backscatter Quality Flags have been safe and Backscatter Quality Cost Altimeter Range and Backscatter Quality Flags have been safe and Backscatter Quality Cost Altimeter Range, SSHA, SWH and Backscatter Quality Cost Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T16035e_20211012T161355_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T163731_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171048_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171048_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171048_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171048_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171048_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171048_20211012T172836_C001	CS_OFFL_SIR_IOPM_2_20211012T153055_20211012T153147_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been garden and Backscatter Quality COGO Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160600_C001  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160600_C001  CS_OFFL_SIR_IOPM_2_20211012T160366_20211012T160500_C001  CS_OFFL_SIR_IOPM_2_20211012T160366_20211012T161355_C001  CS_OFFL_SIR_IOPM_2_20211012T160366_20211012T161355_C001  CS_OFFL_SIR_IOPM_2_20211012T160366_20211012T161355_C001  CS_OFFL_SIR_IOPM_2_20211012T160366_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T163731_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T17039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T17039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T17039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_	CS_OFFL_SIR_IOPM_2_20211012T153150_20211012T154431_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160600_C001  CS_OFFL_SIR_IOPM_2_20211012T160836_20211012T161355_C001  CS_OFFL_SIR_IOPM_2_20211012T160836_20211012T161355_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001  CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171044_20211012T172836_C001  COORA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T171044_20211012T172836_C001  COORA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T171044_20211012T172836_C001  COORA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T171044_20211012T172836_C001  COORA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T171044_20211012T172836_C001  COORA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_IOPM_2_20211012T154912_20211012T155054_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T160836_20211012T161355_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001  CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001	CS_OFFL_SIR_IOPM_2_20211012T155058_20211012T160215_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Gr one or more records.  GS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001  Backscatter Quality  GCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.  GCS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001  CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171044_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T17104_20211012T172836_C001  CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20211012T160259_20211012T160600_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001  Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T1719104_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001	CS_OFFL_SIR_IOPM_2_20211012T160836_20211012T161355_C001		
CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171034_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CCS_OFFL_SIR_IOPM_2_20211012T171904_20	CS_OFFL_SIR_IOPM_2_20211012T161401_20211012T161408_C001		
CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001  CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20211012T162456_20211012T163731_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20211012T163944_20211012T165834_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001  and Backscatter Quality, OCOG Altimeter Range and He OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20211012T171038_20211012T171039_C001		
CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001 and Backscatter Quality, OCOG Altimeter and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20211012T171904_20211012T172836_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20211012T173112_20211012T174450_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20211012T174802_20211012T175307_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T175331_20211012T175447_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T180138_20211012T180239_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T182102_20211012T182322_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T182445_20211012T182834_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T183319_20211012T183535_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T190813_20211012T192351_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T192758_20211012T193224_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T193231_20211012T193239_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T193246_20211012T193423_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T193957_20211012T201318_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T203845_20211012T210248_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T210619_20211012T211127_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T211855_20211012T214544_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T214709_20211012T215021_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T220502_20211012T220510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T221402_20211012T221710_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T221721_20211012T224210_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T224606_20211012T225042_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T225947_20211012T233153_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T234355_20211012T234559_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211012T234602_20211012T234701_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T070951_20211012T071216_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T121324_20211012T121512_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T180111_20211012T180138_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T050209_20211012T050411_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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CS_OFFL_SIR_IOPR_2_20211012T071217_20211012T071221_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T101931_20211012T102049_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T102326_20211012T103156_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T152247_20211012T153004_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T163731_20211012T163734_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.
- > OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20211012T023033_20211012T023126_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T025545_20211012T025833_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T030039_20211012T030605_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T055254_20211012T055857_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T055928_20211012T060533_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T061231_20211012T061603_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T071506_20211012T071536_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T071750_20211012T071913_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T075238_20211012T075428_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T075641_20211012T075657_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T084443_20211012T084516_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T085456_20211012T085618_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T093212_20211012T093352_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T103156_20211012T103635_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T111213_20211012T111550_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T115029_20211012T115226_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T121058_20211012T121233_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T121324_20211012T121512_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20211012T130007_20211012T130132_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T142850_20211012T143224_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T143912_20211012T144020_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T161617_20211012T161805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T165913_20211012T170202_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T171517_20211012T171904_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T175447_20211012T180053_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T183157_20211012T183319_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T183627_20211012T184046_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T201318_20211012T201440_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T202902_20211012T203032_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T203457_20211012T203845_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T215022_20211012T215603_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T220343_20211012T220358_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T220510_20211012T220558_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211012T234732_20211012T234854_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T003742_20211012T004115_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T004328_20211012T004704_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T011057_20211012T011500_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T012443_20211012T012833_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T020441_20211012T021126_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T024904_20211012T025545_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T030605_20211012T030816_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T034600_20211012T035020_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T041449_20211012T041553_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T042933_20211012T043514_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20211012T052401_20211012T052646_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T052646_20211012T053031_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T061121_20211012T061230_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T064115_20211012T064337_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T070337_20211012T070951_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T084107_20211012T084328_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T084516_20211012T084950_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T092945_20211012T093212_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T094353_20211012T094608_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T102326_20211012T103156_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T110732_20211012T111213_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T112243_20211012T112516_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T120310_20211012T121057_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T124751_20211012T125136_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T130133_20211012T130537_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T133514_20211012T133945_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T134331_20211012T135120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T142644_20211012T142849_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T152247_20211012T153004_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T160215_20211012T160259_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T161805_20211012T162454_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T163758_20211012T163944_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T170203_20211012T170921_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T172836_20211012T172927_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T184047_20211012T184753_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T190210_20211012T190812_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20211012T201910_20211012T202749_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T203352_20211012T203409_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T210248_20211012T210503_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T211628_20211012T211855_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T215603_20211012T220343_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T220701_20211012T220800_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T224210_20211012T224442_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T225533_20211012T225946_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T233327_20211012T233402_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T233537_20211012T234159_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211012T234159_20211012T234354_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

### L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors: 18

# 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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:

#### L2 Retracking Flags (20Hz, PLRM)

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 158

# 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.

### 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).

Currently, there are some common auxiliary correction errors 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.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20211011T234142_20211012T003117_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T003117_20211012T012056_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T012056_20211012T021031_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Fouilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220211012T021031_20211012T030011_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T030011_20211012T034946_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T034946_20211012T043925_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T043925_20211012T052901_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T052901_20211012T061840_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Fauilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220211012T061840_20211012T070815_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T070815_20211012T075755_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T075755_20211012T084730_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T084730_20211012T093710_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T093710_20211012T102645_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T102645_20211012T111624_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T111624_20211012T120559_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T120559_20211012T125539_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T125539_20211012T134514_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T134514_20211012T143454_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T143454_20211012T152429_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T152429_20211012T161408_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T161408_20211012T170343_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T170343_20211012T175323_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T175323_20211012T184258_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T184258_20211012T193237_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T193237_20211012T202213_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T202213_20211012T211152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T211152_20211012T220127_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_2_20211012T220127_20211012T225107_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T225107_20211012T234042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220211012T234042_20211013T003022_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

#### 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:

1

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220211012T075755_20211012T084730_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

#### P2P Quality Flags (20Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

29

#### P2P Quality Flags (1 Hz & 1Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

### 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20Hz)

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 (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

#### P2P Retracking Flags PLRM

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

### 7. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	150	150	2	148	0
SIR_IOPR1B	105	112	3	109	0
SIR_IOPN1B	112	105	0	105	0
SIR_IOPM_2	150	150	104	46	0
SIR_IOPR_2	105	112	37	74	1
SIR_IOPN_2	112	105	26	79	0
SIR_IOP_P2P	29	29	0	28	1

# 7.1 QCC Errors

Number of QCC reports with errors:

8

Total number	of	occurrences	of	each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPN_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

Fest Description Key:				
Abbreviation	Test name	Details		
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7		
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7		
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7		
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7		

### 7.2 QCC Warnings

Number of QCC reports with warnings

2214

Total number	of	occurrences	of	each	warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_IOPM1B	148	0	0	0	0	0	0
SIR_IOPM_2	0	0	34	32	1	40	0
SIR_IOPN1B	109	0	0	0	0	0	0
SIR_IOPN_2	0	1	9	37	2	26	32
SIR_IOPR1B	102	0	0	0	0	0	0
SIR_IOPR_2	0	0	39	47	0	37	37

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDF	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	30	0	26	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	23	2	0	0	23	0	42
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	21	5	0	46	0	53	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	22	0	0	3	26	0	3
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	29	18	50	53	36
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	43	0	3	66	41	14

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPM1B	0	0	0	0	0	0	
SIR_IOPM_2	32	0	1	0	0	0	
SIR_IOPN1B	0	0	0	0	50	2	
SIR_IOPN_2	37	34	20	3	0	0	
SIR_IOPR1B	0	0	0	0	105	7	
SIR_IOPR_2	39	48	3	6	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR IOP 2	16	29	29	2	29	18	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDF	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	4	18	29	25	18	29	19

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR IOP 2	28	29	20	17	29		

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	between -70 and 70 degrees  The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
NCDF RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports