

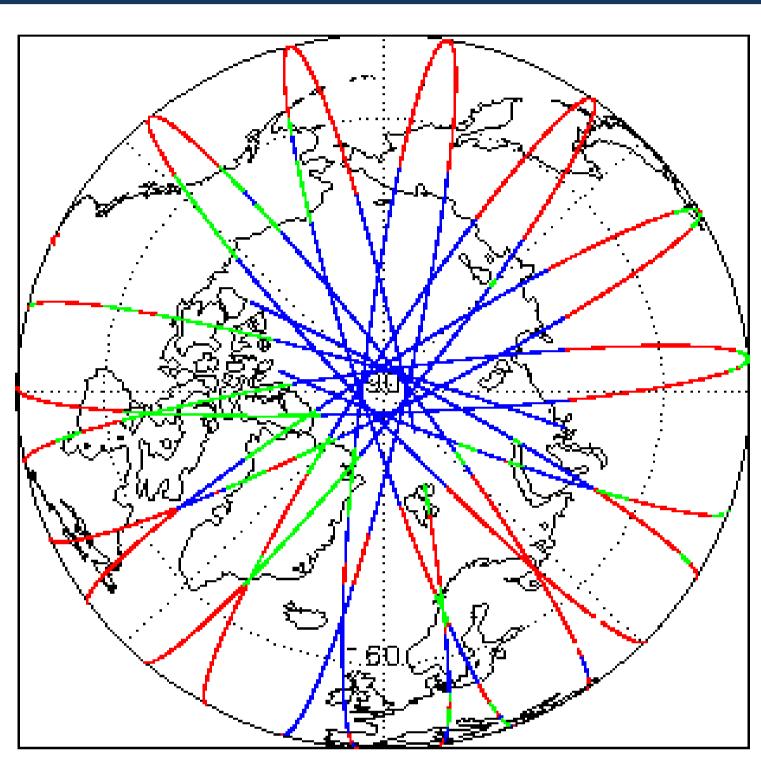
# 1. Overview

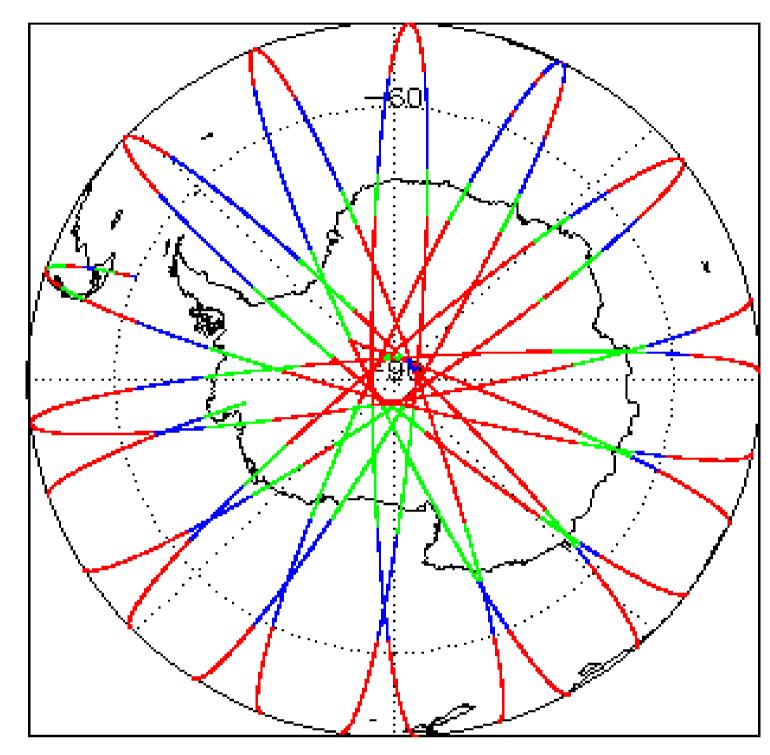
Report Production:	09-Aug-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

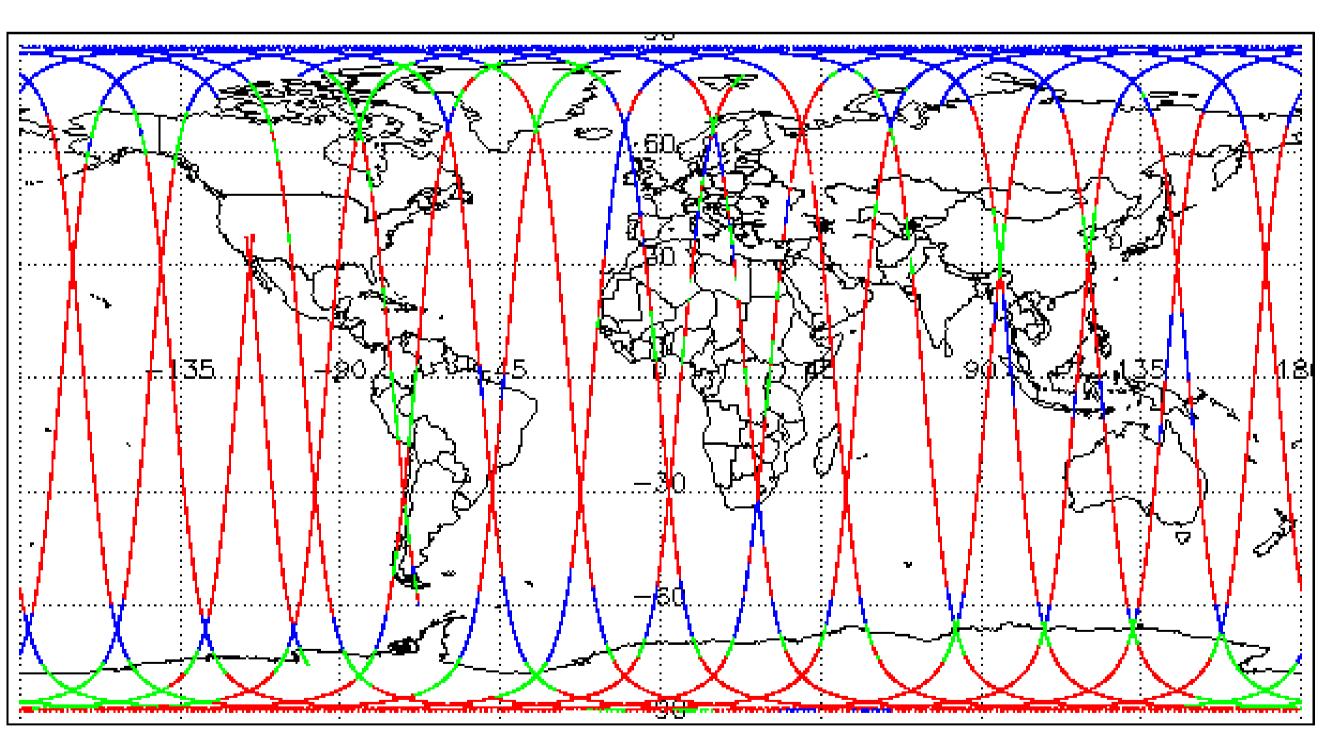
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	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, 7.2	<b>See Section 7.1, 7.2</b>

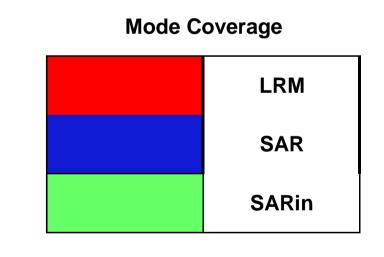
Mission / Instru	iment News
05-Aug-2021	None
06-Aug-2021	None
07-Aug-2021	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

#### **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:

0

### 4.5 L1B Measurement Confidence Data Check

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

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:** 

3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210806T010025_20210806T010126_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20210806T022804_20210806T023523_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20210806T084904_20210806T085644_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:

17

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210806T083704_20210806T084627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210806T134951_20210806T135648_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210806T154755_20210806T162050_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210806T201242_20210806T203006_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T040647_20210806T040736_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T040953_20210806T041115_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T072425_20210806T072929_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T090333_20210806T090441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T104249_20210806T104843_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T121617_20210806T121642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T140505_20210806T140905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T153202_20210806T153307_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T194905_20210806T195101_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T203243_20210806T203500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210806T220824_20210806T221338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210806T014014_20210806T014250_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210806T231034_20210806T231254_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. OP 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	Description
CS_OFFL_SIR_IOPM_2_20210806T090836_20210806T092554_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20210806T172429_20210806T175932_C001	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_20210805T235935_20210806T000118_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_20210806T022720_20210806T022743_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_20210806T030844_20210806T031002_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_20210806T031534_20210806T031850_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_20210806T040647_20210806T040736_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_20210806T044806_20210806T044922_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_20210806T045430_20210806T045743_C001	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_20210806T062904_20210806T063138_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_20210806T063335_20210806T063911_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_20210806T072425_20210806T072929_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_20210806T080755_20210806T081043_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_20210806T090333_20210806T090441_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_20210806T093919_20210806T094103_C001	Mean Dynamic Topography (1), 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 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20210806T094632_20210806T094845_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_20210806T104249_20210806T104843_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20210806T113534_20210806T113801_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_20210806T130508_20210806T130649_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_20210806T140505_20210806T140905_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_20210806T162428_20210806T162749_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_20210806T171449_20210806T171638_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20210806T185437_20210806T185544_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_20210806T194905_20210806T195101_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_20210806T203243_20210806T203500_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_20210806T220824_20210806T221338_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20210806T225818_20210806T230119_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_20210806T230753_20210806T231034_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_20210806T234827_20210806T235201_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_20210806T004132_20210806T004919_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_20210806T021948_20210806T022720_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_20210806T023632_20210806T023827_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_20210806T035845_20210806T040523_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_20210806T053700_20210806T054422_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_20210806T054422_20210806T054713_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_20210806T071847_20210806T072314_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_20210806T072314_20210806T072424_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_20210806T080303_20210806T080755_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20210806T085644_20210806T085757_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_20210806T085757_20210806T090333_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_20210806T103620_20210806T104249_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_20210806T121809_20210806T122304_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_20210806T135648_20210806T140504_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_20210806T153559_20210806T154357_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_20210806T171638_20210806T172429_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_20210806T185545_20210806T190244_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_20210806T201028_20210806T201242_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20210806T203500_20210806T203740_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_20210806T203740_20210806T204215_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_20210806T221338_20210806T222050_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_20210806T235201_20210806T235739_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.

3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210806T010025_20210806T010126_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20210806T022804_20210806T023523_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20210806T084904_20210806T085644_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.

80

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210806T000258_20210806T002917_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_20210806T003106_20210806T003109_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_20210806T010128_20210806T012641_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_20210806T013003_20210806T013501_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_20210806T014251_20210806T021636_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_20210806T022804_20210806T023523_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_20210806T023830_20210806T023835_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_20210806T024117_20210806T024254_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_20210806T030151_20210806T030313_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_20210806T031002_20210806T031533_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_20210806T032253_20210806T035845_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_20210806T040737_20210806T040953_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_20210806T042758_20210806T044406_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_20210806T044922_20210806T045430_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_20210806T050131_20210806T053700_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_20210806T054713_20210806T054854_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_20210806T060427_20210806T062205_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_20210806T063139_20210806T063335_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_20210806T064120_20210806T065104_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_20210806T065106_20210806T065421_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_20210806T065542_20210806T065755_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_20210806T070236_20210806T071137_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_20210806T072930_20210806T074713_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.

December   Propriet   December	CS_OFFL_SIR_IOPM_2_20210806T074854_20210806T080303_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.
Control of the Control of Contr	CS_OFFL_SIR_IOPM_2_20210806T081043_20210806T081246_C001	•	
OCLUPIED SCHOOL ORDINATIONS OF THE DESIGNATION OF THE PROPERTY	CS_OFFL_SIR_IOPM_2_20210806T081346_20210806T081747_C001		
Sea   Control   Sea   Control   Sea   Se	CS_OFFL_SIR_IOPM_2_20210806T082016_20210806T083422_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Section Comp. 2-221 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500 - 2021 (0000110500	CS_OFFL_SIR_IOPM_2_20210806T083704_20210806T084627_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_IOPV_2_20108001100318_202100011100319_cold for Signature Galley, COCK Allered Foreign and Exchange of Becksoatile Caulity Feps have been set of Signature Galley Galle	CS_OFFL_SIR_IOPM_2_20210806T090441_20210806T090541_C001		
CS_OFFL_SR_OPN_2_202108097081318_20211009179037_007  Disput Minister Region and Stockholmer Calley Disput Minister Region SR_OPN_2_20210809708191_2021009179037_007  Disput Minister Region Cally, 2000 Disput Minister Region Cal	CS_OFFL_SIR_IOPM_2_20210806T090836_20210806T092554_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_OFFL_2_20210067064104_2021006710493_CO11  CS_OFFL_SIR_OFFL_2_20210067004444_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067004944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067004944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710492_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710494_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710494_CO11  CS_OFFL_SIR_OFFL_2_20210067102944_2021006710494_CO11  CS_OFFL_SIR_OFFL_2_20210067103949_2021006713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113954_2021006713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113954_2021006713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113954_2021006713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113954_2021066713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113954_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113958_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_200106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067113495_202106713494_CO11  CS_OFFL_SIR_OFFL_2_20210067114497_202106713494_CO11  CS_OFFL_SIR_OF	CS_OFFL_SIR_IOPM_2_20210806T093138_20210806T093711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Equipment Processes Authority Code and Allineater Range SSHA, SWH and Sackscatter Quality Flags and Electrocenter Change, CODE and Electrocenter Change, CO	CS_OFFL_SIR_IOPM_2_20210806T094104_20210806T094357_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and fload-societe Quality COCS Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set from or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set for one or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set for one or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set for one or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set for one or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set for one or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set for one or non-investigation of the cocs Alternater Range and Backscaster Quality Flags have been set for one or non-investigation of the cocs Alternater Ran	CS_OFFL_SIR_IOPM_2_20210806T094845_20210806T095651_C001		
Backscater Duality  CS_OFFL_SIR_IOPM_2_20210808T104943_20210808T112535_C001  CS_OFFL_SIR_IOPM_2_20210808T114008_20210808T112535_C001  CS_OFFL_SIR_IOPM_2_20210808T114008_20210808T120321_C001  CS_OFFL_SIR_IOPM_2_20210808T14018_20210808T120321_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T13034_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T13034_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T13034_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T13034_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T13040_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T13422_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134422_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134422_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134422_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134422_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134422_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134422_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134452_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T134452_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T135048_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T135048_C001  CS_OFFL_SIR_IOPM_2_20210808T13008_20210808T135048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T135048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T135048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T135048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T135048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T145048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T155048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T155048_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T155024_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T155024_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T155024_C001  CS_OFFL_SIR_IOPM_2_20210808T148090_20210808T155024_C001  CS_OFFL_SIR_IOPM_2_20210808T145090_20210808T155024_C001  CS_OFFL_SIR_IOPM_2_20210808T145090_20210808T155024_C001  CS_OFFL_SIR_IOPM_2_20210808T145090_20210808T155082_C001  CS_OFFL_SIR_IOPM_2_20210808T162090_20210808T155082_C001	CS_OFFL_SIR_IOPM_2_20210806T095958_20210806T101427_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCS Allmeter Range and Backscatter Quality are for one or more records.  CS OFFL SIR IOPM 2 20210906T113005 20210908T13034 CO1  CS OFFL SIR IOPM 2 20210906T14008 20210908T13034 CO1  CS OFFL SIR IOPM 2 20210906T14008 20210908T13034 CO1  CS OFFL SIR IOPM 2 20210906T13005 20210908T13024D CO1  CS OFFL SIR IOPM 2 20210906T13005 20210908T13024D CO1  CS OFFL SIR IOPM 2 20210906T13005 20210908T130455 CO1  CS OFFL SIR IOPM 2 20210906T130505 20210908T130455 CO1  CS OFFL SIR IOPM 2 20210906T130505 20210908T130455 CO1  CS OFFL SIR IOPM 2 20210906T130505 20210908T130505 CO1  CS OFFL SIR IOPM 2 20210906T130505 20210908T130500 CO1  CS OFFL SIR IOPM 2 20210906T130505 20210908T130500 CO1  CS OFFL SIR IOPM 2 20210906T130505 20210908T140515 CO1  CS OFFL SIR IOPM 2 20210906T140505 20210908T140516 CO1  CS OFFL SIR IOPM 2 20210906T140505 20210908T140516 CO1  CS OFFL SIR IOPM 2 20210906T140505 20210908T140516 CO1  CS OFFL SIR IOPM 2 20210906T140505 20210908T150500 CO1  CS OFFL SIR IOPM 2 20210906T140505 20210908T140510 CO1  CS OFFL SIR IOPM 2 20210906T140505 20210908T150500 CO1  CS OFFL SIR IOPM 2 20210906T140505 20210908T140510	CS_OFFL_SIR_IOPM_2_20210806T102846_20210806T102921_C001		
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20218806T114018_20218806T120321_C001  CS_OFFL_SIR_IOPM_2_20218806T114018_20218806T130240_C001  CS_OFFL_SIR_IOPM_2_20218806T123654_20218806T130240_C001  CS_OFFL_SIR_IOPM_2_20218806T130340_C001  CS_OFFL_SIR_IOPM_2_20218806T130340_C001  CS_OFFL_SIR_IOPM_2_20218806T130340_C001  CS_OFFL_SIR_IOPM_2_20218806T130340_C001  CS_OFFL_SIR_IOPM_2_20218806T130340_C001  CS_OFFL_SIR_IOPM_2_20218806T130366_C0018806T134450_C001  CS_OFFL_SIR_IOPM_2_20218806T130360_C0018806T134450_C001  CS_OFFL_SIR_IOPM_2_20218806T130360_C0018806T134450_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T135648_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T135648_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T135648_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T135648_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T135648_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C001806T135648_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T1443416_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T145560_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T145560_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T145560_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T145560_C001  CS_OFFL_SIR_IOPM_2_20218806T134850_C0018806T145560_C001  CS_OFFL_SIR_IOPM_2_20218806T145560_C0018806T145560_C001  CS_OFFL_SIR_IOPM_2_20218806T145560_C0016  CS_OFFL_SIR_IOPM_2_20218806T145560_C0016  CS_OFFL_SIR_IOPM_2_20218806T145560_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C001  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_20218806T19004_C0016  CS_OFFL_SIR_IOPM_2_20218806T163307_2021880	CS_OFFL_SIR_IOPM_2_20210806T104843_20210806T112355_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Quality. COCG Alimeter Range and Backscater Quality region one on more records.  CS_OFFL_SIR_IOPM_2_20210806T130654_20210806T130240_CD01  CS_OFFL_SIR_IOPM_2_20210806T130362_20210806T130240_CD01  CS_OFFL_SIR_IOPM_2_20210806T130362_20210806T130240_CD01  CS_OFFL_SIR_IOPM_2_20210806T130362_20210806T130240_CD01  CS_OFFL_SIR_IOPM_2_20210806T130362_20210806T130452_CD01  CS_OFFL_SIR_IOPM_2_20210806T130362_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130562_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T130564_CD01  CS_OFFL_SIR_IOPM_2_20210806T140505_CD01  CS_OFFL_SIR_IOPM_2_20210806T150505_CD01  CS_OFFL_SIR_IOPM_2_20210806T150505_CD01  CS_OFFL_SIR_IOPM_2_20210806T150505_CD01  CS_OFFL_SIR_IOPM_2_20210806T150505_CD01  CCGG_Allimeter Range_CSHA_SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210806T150505_CD01  CCGG_Allimeter Range_CSHA_SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210806T150505_CD01  CCGG_Allimeter Range_CSHA_SWH and Backscatter Quality Flags have been set for one or more records.  CCGG_Allimeter Range_CSHA_SWH and Backscatter Quality Flags ha	CS_OFFL_SIR_IOPM_2_20210806T113005_20210806T113534_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been at the COGO Altimeter Range and Backscatter Quality Flags have been at the Cogo Altimeter Range and Backscatter Quality Flags have been at the Cogo Altimeter Range and Backscatter Quality Flags have been set to one or more records.  CS_OFFL_SIR_IOPM_2_20210806T130836_20210806T131425_C001  CS_OFFL_SIR_IOPM_2_20210806T131858_20210806T134452_C001  CS_OFFL_SIR_IOPM_2_20210806T134951_20210806T134452_C001  CS_OFFL_SIR_IOPM_2_20210806T134951_20210806T134648_C001  CS_OFFL_SIR_IOPM_2_20210806T134951_20210806T136648_C001  CS_OFFL_SIR_IOPM_2_20210806T140805_20210806T144035_C001  CS_OFFL_SIR_IOPM_2_20210806T140805_20210806T144035_C001  CS_OFFL_SIR_IOPM_2_20210806T144847_20210806T145418_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T15006T1	CS_OFFL_SIR_IOPM_2_20210806T114018_20210806T120321_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS OFFL SIR IOPM 2 20210806T131858 20210806T134452 CO01  CS OFFL SIR IOPM 2 20210806T134951 20210806T13648 CO01  CS OFFL SIR IOPM 2 20210806T134951 20210806T13648 CO01  CS OFFL SIR IOPM 2 20210806T140905 20210806T144035 CO01  CS OFFL SIR IOPM 2 20210806T140905 20210806T144035 CO01  CS OFFL SIR IOPM 2 20210806T144847 20210806T145416 CO01  CS OFFL SIR IOPM 2 20210806T144847 20210806T150204 CO01  CS OFFL SIR IOPM 2 20210806T145500 20210806T150204 CO01  CS OFFL SIR IOPM 2 20210806T145500 20210806T150204 CO01  CS OFFL SIR IOPM 2 20210806T145500 20210806T150204 CO01  CS OFFL SIR IOPM 2 20210806T150307 20210806T15004 CO01  CS OFFL SIR IOPM 2 20210806T15007 20210806T15000 CO01  CS OFFL SIR IOPM 2 20210806T15007 20210806T15000 CO01  CS OFFL SIR IOPM 2 20210806T15007 20210806T15000 CO01  CS OFFL SIR IOPM 2 20210806T15007 20210806T16000 CO01  CS OFFL SIR IOPM 2 20210806T15007 20210806T16000 CO01  CS OFFL SIR IOPM 2 20210806T15000 CO01  CS OFFL SIR IOPM 2 20210806T16000 CO01  CS OFFL SIR IOPM 2 20210806T160000 CO01  CS OFFL SIR IOPM 2 20210806T160000 CO01  CS OFFL SIR IOPM 2 2021	CS_OFFL_SIR_IOPM_2_20210806T123654_20210806T130240_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S_OFFL_SIR_IOPM_2_20210806T131858_20210806T134452_C001  Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records.  CS_OFFL_SIR_IOPM_2_20210806T134951_20210806T135648_C001  CS_OFFL_SIR_IOPM_2_20210806T144095_20210806T144035_C001  CS_OFFL_SIR_IOPM_2_20210806T144095_20210806T144035_C001  CS_OFFL_SIR_IOPM_2_20210806T144095_20210806T144035_C001  CS_OFFL_SIR_IOPM_2_20210806T144095_20210806T144035_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T145416_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T150205_C001  CS_OFFL_SIR_IOPM_2_20210806T1502	CS_OFFL_SIR_IOPM_2_20210806T130936_20210806T131425_C001		
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210806T140905_20210806T144035_CO01  CS_OFFL_SIR_IOPM_2_20210806T144847_20210806T145416_CO01  CS_OFFL_SIR_IOPM_2_20210806T144847_20210806T145416_CO01  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T150204_CO01  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T150205_C001  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T160205_C001  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T160205_C001  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T160205_C001  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T160205_C001  CS_OFFL_SIR_IOPM_2_20210806T150207_C0010806T160205_C001  CS_OFFL_SIR_IOPM_2_20210806T160205_C001  C	CS_OFFL_SIR_IOPM_2_20210806T131858_20210806T134452_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210806T144847_20210806T145416_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T150206_C001  CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CCOG Altimeter Range Quality, OCOG Backscatter Quality,	CS_OFFL_SIR_IOPM_2_20210806T134951_20210806T135648_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T153559_C001  CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T153559_C001  CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162850_C001  CS_OFFL_SIR_IOPM_2_20210806T162850_C001  CS_OF	CS_OFFL_SIR_IOPM_2_20210806T140905_20210806T144035_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T162852_C001  CCG_Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210806T144847_20210806T145416_C001		
CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T153559_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T162852_C001  CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T163303_C001  CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T163303_C001  CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T163303_C001  CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T163303_C001	CS_OFFL_SIR_IOPM_2_20210806T145800_20210806T150204_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backsca	CS_OFFL_SIR_IOPM_2_20210806T153307_20210806T153559_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001  Backscatter Quality  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20210806T154755_20210806T162050_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US DEEL SIR IDPM / 20/10806176/855 20/108061763303 C001	CS_OFFL_SIR_IOPM_2_20210806T162750_20210806T162852_C001		
	CS_OFFL_SIR_IOPM_2_20210806T162855_20210806T163303_C001	9	

CS_OFFL_SIR_IOPM_2_20210806T163838_20210806T165442_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_20210806T172429_20210806T175932_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_20210806T180329_20210806T180750_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_20210806T180809_20210806T181203_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_20210806T181715_20210806T185043_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_20210806T185148_20210806T185437_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_20210806T190244_20210806T191730_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_20210806T192648_20210806T193906_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_20210806T194133_20210806T194650_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_20210806T195719_20210806T201028_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_20210806T201242_20210806T203006_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_20210806T205208_20210806T210233_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_20210806T210412_20210806T211759_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_20210806T212100_20210806T212602_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_20210806T212639_20210806T212740_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_20210806T213443_20210806T213532_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_20210806T214150_20210806T214644_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_20210806T215309_20210806T215621_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_20210806T215744_20210806T220454_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_20210806T223635_20210806T225627_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_20210806T230541_20210806T230753_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_20210806T231254_20210806T234013_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_20210806T041552_20210806T041638_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_20210806T104249_20210806T104843_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_20210806T120547_20210806T120548_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_20210806T062205_20210806T062903_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_IOPR_2_20210806T135648_20210806T140504_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_20210806T152247_20210806T152358_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_20210806T152900_20210806T153153_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_20210806T192533_20210806T192648_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_20210806T213532_20210806T213534_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.

# 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_20210806T005756_20210806T005842_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_20210806T021840_20210806T021948_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_20210806T022720_20210806T022743_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_20210806T024254_20210806T024400_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_20210806T024701_20210806T024840_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_20210806T024856_20210806T025230_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_20210806T040953_20210806T041115_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_20210806T041424_20210806T041448_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_20210806T042558_20210806T042758_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_20210806T062904_20210806T063138_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_20210806T063335_20210806T063911_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_20210806T072425_20210806T072929_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_20210806T084627_20210806T084904_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_20210806T090333_20210806T090441_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_20210806T092554_20210806T093138_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_20210806T102354_20210806T102639_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_20210806T104249_20210806T104843_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_20210806T113534_20210806T113801_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_20210806T120554_20210806T120717_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_20210806T121243_20210806T121256_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_20210806T121256_20210806T121350_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_20210806T130752_20210806T130936_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_20210806T131536_20210806T131659_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_20210806T144518_20210806T144846_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_IOPN_2_20210806T145416_20210806T145532_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_20210806T151347_20210806T151449_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_20210806T152633_20210806T152722_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_20210806T153202_20210806T153307_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_20210806T154357_20210806T154601_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_20210806T162428_20210806T162749_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_20210806T163303_20210806T163427_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_20210806T165443_20210806T165810_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_20210806T171449_20210806T171638_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_20210806T180137_20210806T180329_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_20210806T181203_20210806T181312_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_IOPN_2_20210806T194905_20210806T195101_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_20210806T203243_20210806T203500_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_20210806T204855_20210806T205208_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_20210806T211911_20210806T212059_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_20210806T213534_20210806T213640_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_20210806T213906_20210806T214150_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_20210806T214645_20210806T215137_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_20210806T215621_20210806T215744_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_20210806T220824_20210806T221338_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_20210806T222927_20210806T223317_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_20210806T230753_20210806T231034_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_20210806T234013_20210806T234100_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_20210806T234827_20210806T235201_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_20210806T012641_20210806T012834_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_20210806T014014_20210806T014250_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_20210806T023632_20210806T023827_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_20210806T030539_20210806T030844_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_20210806T031850_20210806T032253_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_20210806T035845_20210806T040523_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_20210806T041134_20210806T041421_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_20210806T041638_20210806T041849_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_20210806T044406_20210806T044806_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_20210806T045743_20210806T050131_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_20210806T053700_20210806T054422_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_20210806T062205_20210806T062903_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_20210806T071705_20210806T071833_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_20210806T074713_20210806T074853_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_20210806T080303_20210806T080755_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_20210806T081925_20210806T082016_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_20210806T085644_20210806T085757_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_20210806T085757_20210806T090333_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_20210806T101427_20210806T102227_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_20210806T103620_20210806T104249_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_20210806T121654_20210806T121741_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_20210806T135648_20210806T140504_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_20210806T144035_20210806T144517_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_20210806T145533_20210806T145800_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_20210806T152900_20210806T153153_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_20210806T154601_20210806T154713_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_20210806T162050_20210806T162428_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_20210806T163427_20210806T163838_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_20210806T181313_20210806T181715_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_20210806T195102_20210806T195718_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_20210806T201028_20210806T201242_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_20210806T203740_20210806T204215_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_20210806T211759_20210806T211911_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_20210806T213641_20210806T213718_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_20210806T225627_20210806T225818_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_20210806T235739_20210807T000105_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: 179

# 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: 59

# 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: 133

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

# **6.1 P2P Product Format Check**

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

Number of products with errors: 0

# **6.2 P2P Product Header Analysis**

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

Number of products with errors:

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

0

## **6.4 P2P Auxiliary Correction Error Check**

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

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	Description
CS_OFFL_SIR_IOP_220210805T235606_20210806T004544_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_220210806T004544_20210806T013520_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_220210806T013520_20210806T022459_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_220210806T022459_20210806T031435_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_220210806T031435_20210806T040413_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_220210806T040413_20210806T045350_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_220210806T045350_20210806T054328_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) 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_IOP_220210806T054328_20210806T063304_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_220210806T063304_20210806T072243_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_220210806T072243_20210806T081219_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_220210806T081219_20210806T090157_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_220210806T090157_20210806T095133_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more
CS_OFFL_SIR_IOP_220210806T095133_20210806T104112_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_220210806T104112_20210806T113048_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210806T113048_20210806T122027_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_220210806T122027_20210806T131003_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_220210806T131003_20210806T135941_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_220210806T135941_20210806T144918_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_220210806T144918_20210806T153856_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_220210806T153856_20210806T162832_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_220210806T162832_20210806T171811_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210806T171811_20210806T180747_C001	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_IOP_220210806T180747_20210806T185725_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_220210806T185725_20210806T194701_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_220210806T194701_20210806T203640_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210806T203640_20210806T212616_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_220210806T212616_20210806T221555_C001	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210806T221555_20210806T230531_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_220210806T230531_20210806T235509_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOP_220210806T235509_20210807T004446_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)

#### 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.

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210806T004544_20210806T013520_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220210806T022459_20210806T031435_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220210806T081219_20210806T090157_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: 29

#### 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: 28

#### 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: 30

# 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: 24

## 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: 30

# 7. OP 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	158	0	0	0	0
SIR_IOPR1B	94	0	0	0	0
SIR_IOPN1B	98	0	0	0	0
SIR_IOPM_2	158	0	0	0	0
SIR_IOPR_2	92	0	0	0	0
SIR_IOPN_2	99	0	0	0	0
SIR_IOP_P2P	29	0	0	0	0

### 7.1 QCC Errors

Number of QCC reports with errors: 0

# 7.2 QCC Warnings

Number of QCC reports with warnings

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0

0