

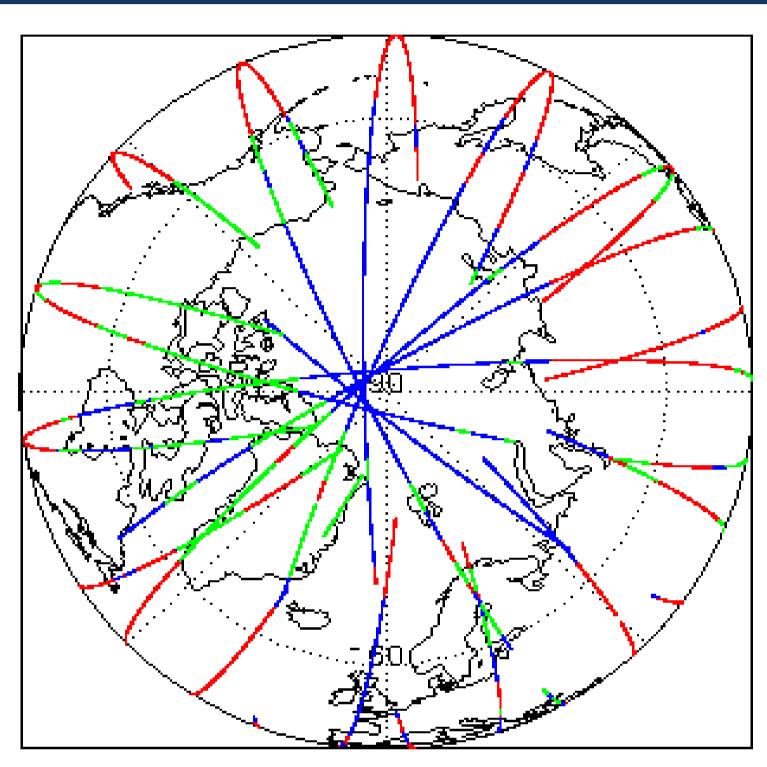
## 1. Overview

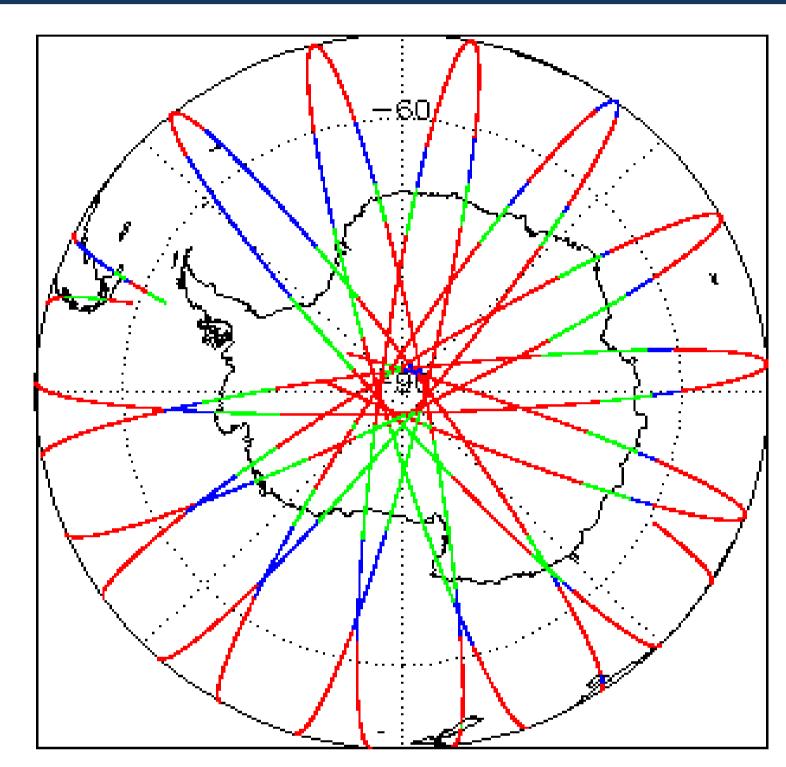
Report Production:	02-Jun-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP L1B & L2 Science Data	

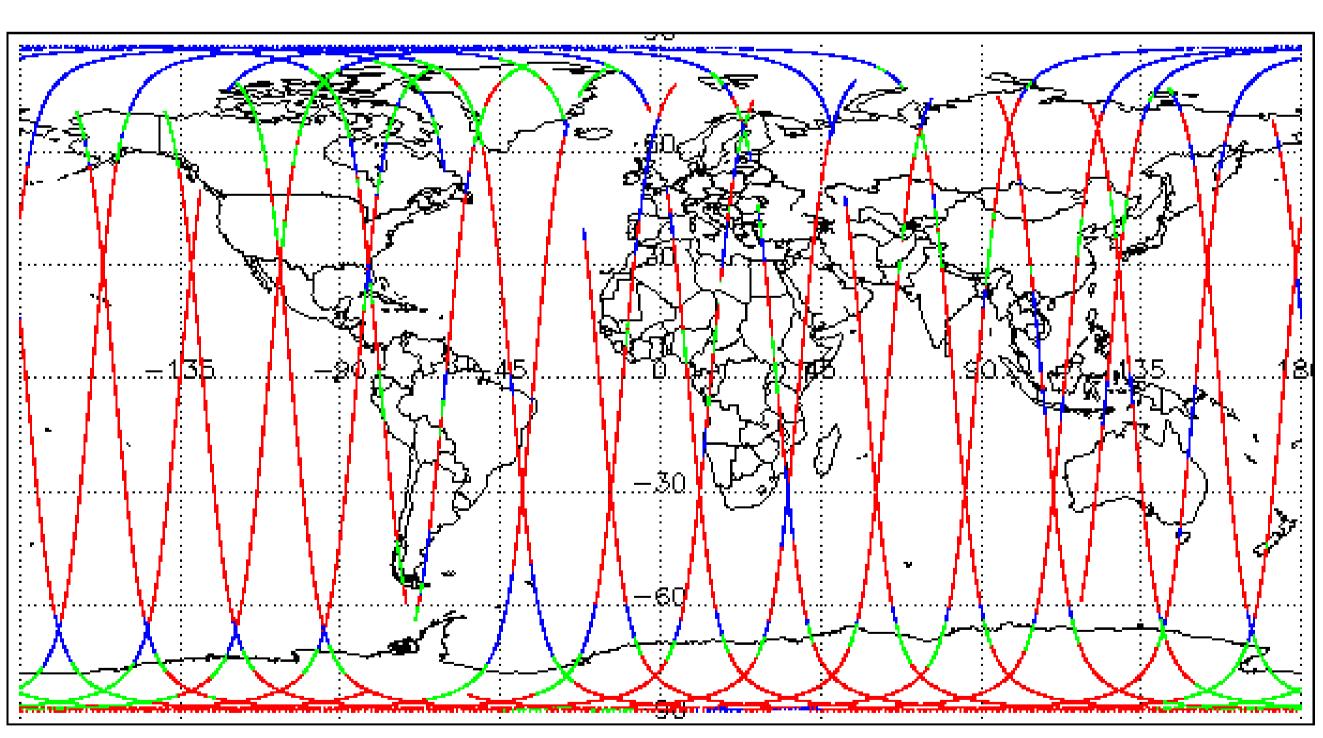
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.2

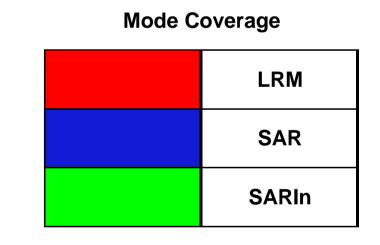
Mission / Instr	ument News
31-May-2021	None
01-Jun-2021	None
02-Jun-2021	Nothing planned

# 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
Star Tracker(s) in use:	Star Tracker 1

## 4. NOP 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.

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

Number of products with errors:

#### **4.4 L1B Auxiliary Correction Error Check**

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

0

2

Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210601T013219_20210601T013805_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20210601T151155_20210601T151609_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:

15

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210601T092320_20210601T095558_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210601T152036_20210601T154548_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210601T234705_20210602T000102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T000553_20210601T000753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T010911_20210601T011209_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T100716_20210601T100914_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T112952_20210601T113302_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T132531_20210601T132749_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T155632_20210601T155917_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T213401_20210601T213621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210601T231113_20210601T231345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210601T000353_20210601T000553_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210601T122012_20210601T122405_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210601T145933_20210601T150030_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210601T163516_20210601T164544_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. NOP 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: 0

### 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

### 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.

Wind Model File Usage: This file is currently not included in all L2 products.

**Number of products with errors:** 

#### **5.4 L2 Auxiliary Correction Error Check**

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

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.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

41

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210601T033430_20210601T033512_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T000553_20210601T000753_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T000753_20210601T000809_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T005222_20210601T005409_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T010911_20210601T011209_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210601T014143_20210601T014207_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T014220_20210601T014640_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T024144_20210601T024350_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T031844_20210601T032503_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T055103_20210601T055228_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T073033_20210601T073159_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T073712_20210601T074013_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T091045_20210601T091347_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T091614_20210601T092129_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T100716_20210601T100914_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20210601T105052_20210601T105326_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T114918_20210601T115156_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210601T132531_20210601T132749_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T140812_20210601T140957_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T150502_20210601T150944_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T155632_20210601T155917_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T172736_20210601T173125_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T180652_20210601T180757_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T190716_20210601T191031_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T195815_20210601T195850_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T205452_20210601T205603_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210601T213401_20210601T213621_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210601T213707_20210601T213827_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) for one or more records
CS_OFFL_SIR_NOPN_2_20210601T231113_20210601T231345_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210601T231623_20210601T231738_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) for one or more records
CS_OFFL_SIR_NOPR_2_20210601T000809_20210601T001451_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) for one or more records

CS_OFFL_SIR_NOPR_2_20210601T014640_20210601T015200_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) for one or more records
CS_OFFL_SIR_NOPR_2_20210601T033225_20210601T033429_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210601T095946_20210601T100107_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPR_2_20210601T150052_20210601T150502_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) for one or more records
CS_OFFL_SIR_NOPR_2_20210601T163516_20210601T164544_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) for one or more records
CS_OFFL_SIR_NOPR_2_20210601T180758_20210601T180845_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210601T181853_20210601T182640_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) for one or more records
CS_OFFL_SIR_NOPR_2_20210601T195850_20210601T200938_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) for one or more records
CS_OFFL_SIR_NOPR_2_20210601T213828_20210601T214317_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) for one or more records
CS_OFFL_SIR_NOPR_2_20210601T231738_20210601T232259_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) for one or more records

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210601T013219_20210601T013805_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20210601T151155_20210601T151609_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.

82

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210601T002523_20210601T003542_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_NOPM_2_20210601T003722_20210601T005136_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_NOPM_2_20210601T005410_20210601T005911_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_NOPM_2_20210601T010746_20210601T010911_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_NOPM_2_20210601T011209_20210601T012108_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_NOPM_2_20210601T012447_20210601T012935_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_NOPM_2_20210601T020822_20210601T023027_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_NOPM_2_20210601T023444_20210601T023828_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_NOPM_2_20210601T023850_20210601T024143_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_NOPM_2_20210601T024509_20210601T031010_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_NOPM_2_20210601T034542_20210601T041034_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_NOPM_2_20210601T041227_20210601T041743_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

De CHIL DE NOVY 2 2019 CHILOSON DE 1919 CHICONO DE 1919 CHILOSON DE 1919 C	CS_OFFL_SIR_NOPM_2_20210601T041750_20210601T042117_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
## CASES AND PAY 2.001907 T02900 2201001710019 COT    ## CASES AND PAY 2.001907 T0290 2201001710019 COT    ## CASES AND PAY 2.001907 T02900 2201001710019 CO	CS_OFFL_SIR_NOPM_2_20210601T042449_20210601T045759_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col. Dell. Life. N. Chill.   2007 COST 102011 20201	CS_OFFL_SIR_NOPM_2_20210601T052020_20210601T053429_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sec. CEPEL SIRE NOPM 2. 20130011102019 (20120111002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (2012011002018) (20120180018002018) (20120180018002018) (20120180018002018) (2012018001800201800180018001800180018001	CS_OFFL_SIR_NOPM_2_20210601T053431_20210601T053947_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Security (1987) 1987 (1987) 19	CS_OFFL_SIR_NOPM_2_20210601T054418_20210601T054955_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
## BREADANCE COME.  ## BRE	CS_OFFL_SIR_NOPM_2_20210601T055228_20210601T055818_C001		
and Budderscare Output (2,000 OA) in our finger and Budderscare Output (1964) and all of COOO After and Finger and Budderscare Output (1964) and all of COOO After and Finger and Budderscare Output (1964) and Buddersc	CS_OFFL_SIR_NOPM_2_20210601T060421_20210601T062708_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210011105107_20210011105107_00101  CS_OFFL_SIR_NOPN_2_20210011104701_20210011074284_CO01  CS_OFFL_SIR_NOPN_2_20210011104701_20210011061040_CO01  CS_OFFL_SIR_NOPN_2_20210011104802_20210011104074_CO01  CS_OFFL_SIR_NOPN_2_20210011104802_20210011104074_CO01  CS_OFFL_SIR_NOPN_2_20210011104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_202100110501144_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_2021001104802_20210011050114_CO01  CS_OFFL_SIR_NOPN_2_20210011104134_2021001106164_CO01  CS_OFFL_SIR_NOPN_2_20210011104134_2021001106164_CO01  CS_OFFL_SIR_NOPN_2_20210011104134_20210011104114_CO01  CS_OFFL_SIR_NOPN_2_20210011104134_C001  CS_OFFL_SIR_NOPN_2_20210011104134_C001  CS_OFFL_SIR_NOPN_2_20210011104134_C001  CS_OFFL_SIR_NOPN_2_20210011104134_C001  CS_OFFL_SIR_NOPN_2_20210011104134_C001  CS_OFFL_SIR_NOPN_2_20210011104144_C001  CS_OFFL_SIR_NOPN_2_20210011104144_C001  CS_OFFL_SIR_NOPN_2_20210011104144_C001  CS_OFFL_SIR_NOPN_2_2021001110414_C001  CS_OFFL_SIR_NOPN_2_20210011104144_C001  CS_OFFL_SIR_NOPN_2_20210011104144_C001  CS_OFFL_SIR_NOPN_2_20210011104144_C001  CS_OFFL_SIR_NOPN_2_20210011104144_C001  CS_OFFL_SIR_NOPN_2_20210011110414_C001  CS_OFFL_SIR_NOPN_2_20210011110414_C001  CS_OFFL_SIR_NOPN_2_20210011110414_C001  CS_OFFL_SIR_NOPN_2_20210011110414_C001  CS_OFFL_SIR_NOPN_2_20210011110414_C001  CS_OFFL_SIR_NOP	CS_OFFL_SIR_NOPM_2_20210601T062720_20210601T063725_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and de-COGG Atmere Range and Barkscanter Dually Flags have been act to one or more second.  CS_OFFL_SIR_NOPM_2_202108011074388_20210801108027_C001  and Secondary Cash COCOGG Atmere Range and Barkscanter Dually Flags have been act to one or more second.  CS_OFFL_SIR_NOPM_2_202108011074388_20210801108027_C001  and Secondary Cash COCOGG Atmere Range SSHA, SWH and Septication Quality Flags and Secondary Cash CoCOGG Atmered Range SSHA, SWH and Septication Quality Flags and Secondary Cash COCOGG Atmered Range SSHA, SWH and Septication Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash COCOGG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG Atmered Range and Backscanter Quality Flags and Secondary Cash CocogG A	CS_OFFL_SIR_NOPM_2_20210601T065107_20210601T065158_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
ord float-boarder Guality, GOOD Alternater Range of Baldscarter Guality and the COOD Alternater Range of Baldscarter Guality and the COOD Alternater Range and Baldscarter Guality and the COOD Alternater Range and Baldscarter Guality and the COOD Alternater Range and Baldscarter Guality and the COOD Alternater Range (SMA, SWH and Baldscarter Guality and Baldscarter Guality).  CS OFFL SIR NOPM 2 202106017000207 202106017000314 CO01  CS OFFL SIR NOPM 2 202106017000207 202106017000711.CO01  CS OFFL SIR NOPM 2 20210601700000711.CO01  CS OFFL SIR NOPM 2 2021060170000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20210601T071701_20210601T072904_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SOFFL SIR NOPM 2 2021061110220 20210801110315 COST  CS_OFFL SIR NOPM 2 2021061110220 202108011103015 COST  All meter Range and Backcaster County Flags have been set for one or more records.  CS_OFFL SIR NOPM 2 202106011022007 20210801108014 COST  CS_OFFL SIR NOPM 2 20210601102200 202108011080585. COST  CS_OFFL SIR NOPM 2 20210601102200 202108011103015 COST  CS_OFFL SIR NOPM 2 20210601102200 202108011080585. COST  CS_OFFL SIR NOPM 2 20210601102200 202108011080585. COST  CS_OFFL SIR NOPM 2 202106011102201 20210801110315 COST  CS_OFFL SIR NOPM 2 202106011103127 202108011110315 COST  CS_OFFL SIR NOPM 2 202106011103127 202108011110327 COST  CS_OFFL SIR NOPM 2 2021060111103127 202108011110327 COST  CS_OFFL SIR NOPM 2 202106011110322 202108011111760 COST  CS_OFFL SIR NOPM 2 202106011110322 2021080111116310 COST  CS_OFFL SIR NOPM 2 202106011111320 2021080111116310 COST  CS_OFFL SIR NOPM 2 202106011111630 202108011116310 COST  CS_OFFL SIR NOPM 2 202106011116	CS_OFFL_SIR_NOPM_2_20210601T074338_20210601T080527_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL SIR NOPM 2 20210801T084908 20210801T1980711 C0tol  Allower Range and Backscater Quality Accessed Backscater County Accessed Backscater County CS OFFL SIR NOPM 2 20210801T084908 20210801T1980711 C0tol  CS OFFL SIR NOPM 2 20210801T084908 20210801T091711 C0tol  CS OFFL SIR NOPM 2 20210801T084908 20210801T091711 C0tol  CS OFFL SIR NOPM 2 20210801T092320 20210801T095588 C0tol  CS OFFL SIR NOPM 2 20210801T1092320 20210801T095588 C0tol  CS OFFL SIR NOPM 2 20210801T1092320 20210801T1995588 C0tol  CS OFFL SIR NOPM 2 20210801T103217 20210801T10408 C0tol  CS OFFL SIR NOPM 2 20210801T103217 20210801T10408 C0tol  CS OFFL SIR NOPM 2 20210801T103127 20210801T10408 C0tol  CS OFFL SIR NOPM 2 20210801T103127 20210801T10408 C0tol  CS OFFL SIR NOPM 2 20210801T105710 20210801T10408 C0tol  CS OFFL SIR NOPM 2 20210801T105710 20210801T110408 C0tol  CS OFFL SIR NOPM 2 20210801T1105720 20210801T110522 C0tol  CS OFFL SIR NOPM 2 20210801T1105710 20210801T1105720 C0tol  CS OFFL SIR NOPM 2 20210801T1105710 20210801T1105720 C0tol  CS OFFL SIR NOPM 2 20210801T1105710 20210801T1105720 C0tol  CS OFFL SIR NOPM 2 20210801T1105720 20210801T1105720 C0tol  CS OFFL SIR NOPM 2 20210801T111583 20210801T110572 C0tol  CS OFFL SIR NOPM 2 20210801T111583 20210801T110572 C0tol  CS OFFL SIR NOPM 2 20210801T11583 20210801T110572 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T110572 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T110572 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T11982 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T11982 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T119832 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T119832 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T119832 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T119801 C0tol  CS OFFL SIR NOPM 2 20210801T115831 20210801T119801 C0tol  CS OFFL SIR NOPM 2 20210801T1	CS_OFFL_SIR_NOPM_2_20210601T080812_20210601T081746_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 secords.  CS QFFL_SIR_NOPM_2_20210601T091348_20210601T091614_C001  CS_QFFL_SIR_NOPM_2_20210601T091348_20210601T0915558_C001  CS_QFFL_SIR_NOPM_2_20210601T103272_20210601T0915558_C001  CS_QFFL_SIR_NOPM_2_20210601T103272_20210601T103115_C001  CS_QFFL_SIR_NOPM_2_20210601T101201_202210601T103115_C001  CS_QFFL_SIR_NOPM_2_20210601T101201_202210601T103115_C001  CS_QFFL_SIR_NOPM_2_20210601T101201_202210601T10408_C001  CS_QFFL_SIR_NOPM_2_20210601T101201_202210601T10408_C001  CS_QFFL_SIR_NOPM_2_20210601T101207_20210601T10408_C001  CS_QFFL_SIR_NOPM_2_20210601T103107_20210601T10408_C001  CS_QFFL_SIR_NOPM_2_20210601T105710_202210601T110408_C001  CS_QFFL_SIR_NOPM_2_20210601T105710_202210601T110408_C001  CS_QFFL_SIR_NOPM_2_20210601T105710_202210601T11027_C001  CS_QFFL_SIR_NOPM_2_20210601T1105710_20210601T11027_C001  CS_QFFL_SIR_NOPM_2_20210601T1105710_20210601T11027_C001  CS_QFFL_SIR_NOPM_2_20210601T1105710_20210601T11057_C001  CS_QFFL_SIR_NOPM_2_20210601T1105710_20210601T11057_C001  CS_QFFL_SIR_NOPM_2_20210601T1105710_20210601T111057_C001  CS_QFFL_SIR_NOPM_2_20210601T1105710_20210601T111057_C001  CS_QFFL_SIR_NOPM_2_20210601T11057_02210601T111057_C001  CS_QFFL_SIR_NOPM_2_20210601T11057_02210601T111057_C001  CS_QFFL_SIR_NOPM_2_20210601T11057_02210601T111057_C001  CS_QFFL_SIR_NOPM_2_20210601T111057_C001  CS_QFFL_SIR_NOPM_2_20210601T111057_0001  CS_QFFL_SIR_NOPM_2_20210601T111057_0001  CS_QFFL_SIR_NOPM_2_20210601T111057_0001  CS_QFFL_SIR_NOPM_2_20210601T111057_0001  CS_QFFL_SIR_NOPM_2_20210601T111057_0001  CS_QFFL_SIR_NOPM_2_20210601T111057_0001  CS_QFFL_SIR_NOPM_2_20210601T1115531_20210601T111407_0001  CS_QFFL_SIR_NOPM_2_20210601T1115531_20210601T1115531_20210601T111567_0001  CS_QFFL_SIR_NOPM_2_20210601T1115531_20210601T111567_0001  CS_QFFL_SIR_NOPM_2_20210601T1115531_20210601T111567_0001  CS_QFFL_SIR_NOPM_2_20210601T1115531_20210601T111567_0001  CS_QFFL_SIR_NOPM_2_20210601T115531_20210601T11567_0001  CS_QFFL_SIR_NOPM_2_2021	CS_OFFL_SIR_NOPM_2_20210601T082907_20210601T083134_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210601T102320_20210601T105558_C001  CS_OFFL_SIR_NOPM_2_20210601T10201_20210601T105558_C001  CS_OFFL_SIR_NOPM_2_20210601T10201_20210601T103115_C001  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T103115_C001  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T10315_C001  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T10408_C001  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T10408_C001  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T10408_C001  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T10027_C001  CS_OFFL_SIR_NOPM_2_20210601T10322_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110022_C001  CS_OFFL_SIR_NOPM_2_20210601T110022_C001  CS_OFFL_SIR_NOPM_2_20210601T110022_C001  CS_OFFL_SIR_NOPM_2_20210601T110022_C001  CS_OFFL_SIR_NOPM_2_20210601T110022_C0010  CS_OFFL_SIR_NOPM_2_20210601T110020_C0010  CS_OFFL_SIR	CS_OFFL_SIR_NOPM_2_20210601T084806_20210601T090711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been ast for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T101201_20210601T103115_CO01  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T103115_CO01  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T104408_CO01  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T104408_CO01  CS_OFFL_SIR_NOPM_2_20210601T105710_20210601T104408_CO01  CS_OFFL_SIR_NOPM_2_20210601T105710_20210601T110027_CO01  CS_OFFL_SIR_NOPM_2_20210601T105710_20210601T110027_CO01  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T110570_CO01  CS_OFFL_SIR_NOPM_2_20210601T110570_20210601T110570_CO01  CS_OFFL_SIR_NOPM_2_20210601T110570_20210601T110570_CO01  CS_OFFL_SIR_NOPM_2_20210601T110570_CO01  CCG_Altimeter Range Quality, CCGG Backscatter Quality, CCGG CS_OFFL_SIR_NOPM_2_20210601T110570_CO01  CCG_Altimeter Range Quality, CCGG Backscatter Quality, CCGG CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC	CS_OFFL_SIR_NOPM_2_20210601T091348_20210601T091614_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, and Backscatter Quality Flags have been Altimeter Range, and Backscatter Quality set for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T104408_C001  CS_OFFL_SIR_NOPM_2_20210601T105710_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T105710_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T111750_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T11750_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T11750_C001  CS_OFFL_SIR_NOPM_2_20210601T111953_20210601T112952_C001  CS_OFFL_SIR_NOPM_2_20210601T11953_20210601T112952_C001  CS_OFFL_SIR_NOPM_2_20210601T111533_20210601T11952_C001  CS_OFFL_SIR_NOPM_2_20210601T11750_C001  CS_	CS_OFFL_SIR_NOPM_2_20210601T092320_20210601T095558_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T10272_20210601T110027_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T111750_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T111750_C001  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T111750_C001  CS_OFFL_SIR_NOPM_2_20210601T11953_20210601T1112952_C001  CS_OFFL_SIR_NOPM_2_20210601T11953_20210601T1112952_C001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T1114917_C001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T114917_C001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T115022_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T115022_20210601T115022_C001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T115022_D001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T115022_D001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T115022_D001  CS_OFFL_SIR_NOPM_2_20210601T115022_20210601T115022_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_20210601T115022_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_D001601T1106029_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_D001601T1106029_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_D001601T1106029_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_D001601T1106029_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_D001601T1106029_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_D001601T1106029_D001  CS_OFFL_SIR_NOPM_2_20210601T115012_D001601T1206029_D001  CS_OFFL_SIR_NOPM_2_20210601T115011_D001601T1206029_D001  CS_OFFL	CS_OFFL_SIR_NOPM_2_20210601T101201_20210601T103115_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T111750_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T111750_C001  CS_OFFL_SIR_NOPM_2_20210601T111953_20210601T112952_C001  CS_OFFL_SIR_NOPM_2_20210601T111953_20210601T112952_C001  CS_OFFL_SIR_NOPM_2_20210601T111750_C001  CS_OFFL_SIR_NOPM_2_20210601T111750_C001  CS_OFFL_SIR_NOPM_2_20210601T11551_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T1120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T123445_C001  CC_OCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T123445_C001  CC_OCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210601T103127_20210601T104408_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, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T111953_20210601T112952_C001  CS_OFFL_SIR_NOPM_2_20210601T114721_20210601T114917_C001  CS_OFFL_SIR_NOPM_2_20210601T114721_20210601T114917_C001  CS_OFFL_SIR_NOPM_2_20210601T115202_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001  CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001  CCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210601T105710_20210601T110027_C001		
CS_OFFL_SIR_NOPM_2_20210601T111953_20210601T112952_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T114721_20210601T114917_C001  CS_OFFL_SIR_NOPM_2_20210601T115202_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115202_20210601T115410_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T1120829_C001  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T1123157_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T123428_C001  CCG_Altimeter Range Quality, OCOG Backscatter Quality, OCOG Bac	CS_OFFL_SIR_NOPM_2_20210601T110222_20210601T111750_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  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.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210601T111953_20210601T112952_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210601T115202_20210601T115410_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.  CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001  CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001  CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T1234258_C001	CS_OFFL_SIR_NOPM_2_20210601T114721_20210601T114917_C001	•	
CS_OFFL_SIR_NOPM_2_20210601T12531_20210601T120829_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 Backscat	CS_OFFL_SIR_NOPM_2_20210601T115202_20210601T115410_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T123445_C001  Backscatter Quality  For one or more records.  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPM_2_20210601T115531_20210601T120829_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US OFFI SIR NOPM / 202106011123458 202106011123928 C001	CS_OFFL_SIR_NOPM_2_20210601T123157_20210601T123445_C001		
	CS_OFFL_SIR_NOPM_2_20210601T123458_20210601T123928_C001	9	

CS_OFFL_SIR_NOPM_2_20210601T124202_20210601T125618_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_NOPM_2_20210601T130741_20210601T130758_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_NOPM_2_20210601T134320_20210601T140658_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_NOPM_2_20210601T140957_20210601T141833_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_NOPM_2_20210601T142125_20210601T144616_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_NOPM_2_20210601T145122_20210601T145449_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_NOPM_2_20210601T152036_20210601T154548_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_NOPM_2_20210601T155212_20210601T155631_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_NOPM_2_20210601T160032_20210601T162706_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_NOPM_2_20210601T165304_20210601T172446_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_NOPM_2_20210601T173125_20210601T173712_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_NOPM_2_20210601T173853_20210601T174455_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_NOPM_2_20210601T181618_20210601T181710_C001	1	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_NOPM_2_20210601T183010_20210601T190352_C001	and Backscatter Quality, OCOG	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_NOPM_2_20210601T191031_20210601T191544_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_NOPM_2_20210601T191844_20210601T193655_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_NOPM_2_20210601T193914_20210601T194607_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_NOPM_2_20210601T195520_20210601T195552_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_NOPM_2_20210601T200938_20210601T203725_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_NOPM_2_20210601T203736_20210601T204248_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_NOPM_2_20210601T204846_20210601T205032_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_NOPM_2_20210601T205829_20210601T212509_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_NOPM_2_20210601T214911_20210601T220510_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_NOPM_2_20210601T221606_20210601T222211_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_NOPM_2_20210601T222409_20210601T222932_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_NOPM_2_20210601T224041_20210601T225133_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.

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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
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.
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.
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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality

#### 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.

Number of products with errors: 101

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210601T002249_20210601T002522_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_NOPN_2_20210601T012108_20210601T012437_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_NOPN_2_20210601T012935_20210601T013057_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_NOPN_2_20210601T014220_20210601T014640_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_NOPN_2_20210601T020246_20210601T020643_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_NOPN_2_20210601T023128_20210601T023444_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_NOPN_2_20210601T031331_20210601T031548_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_NOPN_2_20210601T031844_20210601T032503_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_NOPN_2_20210601T033513_20210601T033636_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_NOPN_2_20210601T042117_20210601T042241_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_NOPN_2_20210601T045759_20210601T050207_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_NOPN_2_20210601T055103_20210601T055228_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_NOPN_2_20210601T063748_20210601T063837_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_NOPN_2_20210601T063915_20210601T064121_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_NOPN_2_20210601T065159_20210601T065241_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_NOPN_2_20210601T065343_20210601T065447_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_NOPN_2_20210601T065856_20210601T065913_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_NOPN_2_20210601T070739_20210601T070923_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_NOPN_2_20210601T073033_20210601T073159_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_NOPN_2_20210601T084706_20210601T084806_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_NOPN_2_20210601T091045_20210601T091347_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_NOPN_2_20210601T091614_20210601T092129_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_NOPN_2_20210601T100716_20210601T100914_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_NOPN_2_20210601T105052_20210601T105326_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_NOPN_2_20210601T105523_20210601T105710_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_NOPN_2_20210601T110027_20210601T110154_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_NOPN_2_20210601T112952_20210601T113302_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_NOPN_2_20210601T114606_20210601T114720_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_NOPN_2_20210601T114918_20210601T115156_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_NOPN_2_20210601T121041_20210601T121144_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_NOPN_2_20210601T121248_20210601T121309_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_NOPN_2_20210601T123929_20210601T124111_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_NOPN_2_20210601T130628_20210601T130659_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_NOPN_2_20210601T132531_20210601T132749_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_NOPN_2_20210601T132835_20210601T133013_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_NOPN_2_20210601T141834_20210601T142018_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_NOPN_2_20210601T144616_20210601T144840_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_NOPN_2_20210601T144910_20210601T145019_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_NOPN_2_20210601T150502_20210601T150944_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_NOPN_2_20210601T151033_20210601T151154_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_NOPN_2_20210601T155054_20210601T155212_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_NOPN_2_20210601T172736_20210601T173125_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_NOPN_2_20210601T175531_20210601T175737_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_NOPN_2_20210601T180846_20210601T180911_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_NOPN_2_20210601T182839_20210601T183010_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_NOPN_2_20210601T190716_20210601T191031_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_NOPN_2_20210601T193656_20210601T193914_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_NOPN_2_20210601T195815_20210601T195850_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_NOPN_2_20210601T204433_20210601T204845_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_NOPN_2_20210601T205452_20210601T205603_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_NOPN_2_20210601T213401_20210601T213621_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_NOPN_2_20210601T213707_20210601T213827_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_NOPN_2_20210601T231113_20210601T231345_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_NOPN_2_20210601T231623_20210601T231738_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_NOPN_2_20210601T232259_20210601T232329_C001	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_NOPR_2_20210531T235957_20210601T000235_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_NOPR_2_20210601T000353_20210601T000553_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_NOPR_2_20210601T000809_20210601T001451_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_NOPR_2_20210601T013907_20210601T014143_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_NOPR_2_20210601T014640_20210601T015200_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_NOPR_2_20210601T024351_20210601T024509_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_NOPR_2_20210601T033225_20210601T033429_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_NOPR_2_20210601T060134_20210601T060421_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_NOPR_2_20210601T063839_20210601T063914_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_NOPR_2_20210601T074014_20210601T074338_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_NOPR_2_20210601T080527_20210601T080811_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_NOPR_2_20210601T081747_20210601T081839_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_NOPR_2_20210601T083134_20210601T083858_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_NOPR_2_20210601T090712_20210601T091044_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_NOPR_2_20210601T092130_20210601T092320_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_NOPR_2_20210601T104409_20210601T105052_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_NOPR_2_20210601T110155_20210601T110222_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_NOPR_2_20210601T111750_20210601T111953_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_NOPR_2_20210601T120829_20210601T121040_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_NOPR_2_20210601T122012_20210601T122405_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_NOPR_2_20210601T124112_20210601T124202_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_NOPR_2_20210601T125618_20210601T125757_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_NOPR_2_20210601T130134_20210601T130507_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_NOPR_2_20210601T133014_20210601T133025_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_NOPR_2_20210601T133104_20210601T133323_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_NOPR_2_20210601T145020_20210601T145122_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_NOPR_2_20210601T145933_20210601T150030_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_NOPR_2_20210601T150052_20210601T150502_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_NOPR_2_20210601T155918_20210601T160032_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_NOPR_2_20210601T163516_20210601T164544_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_NOPR_2_20210601T172447_20210601T172736_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_NOPR_2_20210601T181231_20210601T181318_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_NOPR_2_20210601T181853_20210601T182640_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_NOPR_2_20210601T182758_20210601T182839_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_NOPR_2_20210601T190353_20210601T190716_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_NOPR_2_20210601T194924_20210601T194935_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_NOPR_2_20210601T195552_20210601T195815_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_NOPR_2_20210601T195850_20210601T200938_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_NOPR_2_20210601T205603_20210601T205829_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_NOPR_2_20210601T213828_20210601T214317_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_NOPR_2_20210601T214317_20210601T214600_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_NOPR_2_20210601T220510_20210601T221017_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_NOPR_2_20210601T222211_20210601T222241_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_NOPR_2_20210601T223352_20210601T224040_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_NOPR_2_20210601T225308_20210601T225426_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_NOPR_2_20210601T231738_20210601T232259_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: 190

## 5.7 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 falling at ocean/ land boundaries, but this is expected.

Number of products with errors: 65

### 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 NOPR and NOPN products over sea ice, but this is to be expected.

Number of products with errors: 143

## 7. NOP 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_NOPM1B	151	151	3	148	0
SIR_NOPR1B	100	100	0	100	0
SIR_NOPN1B	108	108	3	105	0

SIR_NOPM_2	151	151	101	50	0
SIR_NOPR_2	100	100	24	76	0
SIR_NOPN_2	108	108	43	65	0

### 7.1 QCC Errors

**Number of QCC reports with errors:** 

0

### 7.2 QCC Warnings

Number of QCC reports with warnings

1818

Total number of occurrences of each warning

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	Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF	
	SIR_NOPM1B	148	0	0	0	0	0	0	
	SIR_NOPM_2	0	40	41	0	36	0	32	
	SIR_NOPN1B	103	0	0	0	0	0	0	
	SIR_NOPN_2	0	12	38	5	31	33	21	
	SIR_NOPR1B	98	0	0	0	0	0	0	
	SIR_NOPR_2	0	36	48	1	32	28	15	

Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	39	0	0	0	0	28	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	29	0	40	0	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	0	49	0	59	0	0	50

Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	5	26	0	5	36	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	34	19	45	60	36	38	37
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	2	61	38	10	42	52

Product Type	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-	-
	0	0	0	0			
SIR_NOPM1B	0	U	U	U			
SIR_NOPM_2	0	0	0	0			
SIR_NOPN1B	0	0	49	2			
SIR_NOPN_2	17	3	0	0			
SIR_NOPR1B	0	0	100	6			
SIR_NOPR_2	2	1	0	0			

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

# 7.3 Missing QCC Reports

Number of products with missing QCC reports: