

### 1. Overview

Report Production:	10-May-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

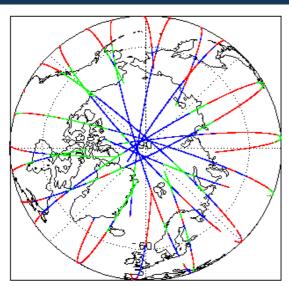
### We would love to hear from you!

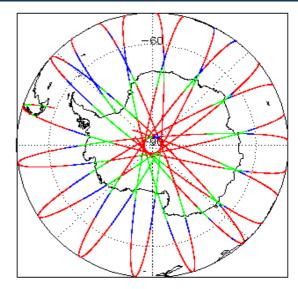
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

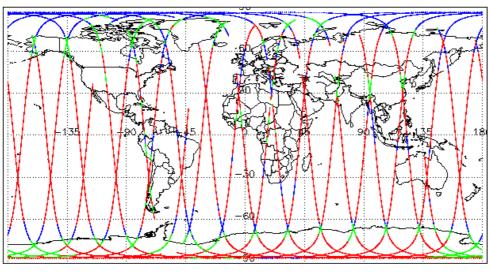
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement 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	Mission / Instrument News		
08-May-2023	None		
09-May-2023	None		
10-May-2023	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

#### 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 NOPR and NOPN 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:

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:

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#### 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. The attitude correction is not actually missing, 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\_20230509T160012\_20230509T160413\_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 occasional products over land, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230509T080547_20230509T083941_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230509T102605_20230509T102957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230509T132208_20230509T133620_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230509T235134_20230509T235511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T015746_20230509T015830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T021447_20230509T021634_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T043500_20230509T043639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T074952_20230509T075039_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T174212_20230509T174648_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T175408_20230509T175542_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T194509_20230509T194637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230509T220452_20230509T220600_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T060955_20230509T061149_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T061917_20230509T062303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T075355_20230509T080157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T093437_20230509T094139_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T111340_20230509T112056_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T124313_20230509T124605_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T124816_20230509T125039_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T125256_20230509T125650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T174649_20230509T175408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230509T211830_20230509T212221_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 NetCDF product file (.nc).

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

#### 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:

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

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- > 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230509T102605_20230509T102957_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_20230509T002446_20230509T002837_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_20230509T011426_20230509T011544_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_20230509T012130_20230509T012237_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_20230509T020431_20230509T020637_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_20230509T030046_20230509T030635_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230509T035325_20230509T035557_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_20230509T043500_20230509T043639_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_20230509T044038_20230509T044048_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_20230509T052325_20230509T052446_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_20230509T061852_20230509T061917_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_20230509T062303_20230509T062655_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_20230509T070315_20230509T070642_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_20230509T084222_20230509T084543_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_20230509T085059_20230509T085222_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_20230509T093219_20230509T093437_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_20230509T102958_20230509T103107_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_20230509T120659_20230509T120857_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_20230509T125040_20230509T125255_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_20230509T135331_20230509T135444_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_20230509T143208_20230509T143236_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_20230509T151614_20230509T151920_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_20230509T152601_20230509T152830_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_20230509T160600_20230509T160955_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_20230509T161040_20230509T161044_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_20230509T174212_20230509T174648_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230509T183544_20230509T183709_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_20230509T194509_20230509T194637_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_20230509T202158_20230509T202501_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_20230509T215511_20230509T215819_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_20230509T220100_20230509T220445_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_20230509T002105_20230509T002446_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20230509T011740_20230509T012130_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_20230509T043639_20230509T044038_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_20230509T044048_20230509T044102_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_20230509T061507_20230509T061852_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_20230509T061917_20230509T062303_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_20230509T075355_20230509T080157_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_20230509T093437_20230509T094139_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_20230509T111340_20230509T112056_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_20230509T122824_20230509T123038_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20230509T125256_20230509T125650_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_20230509T125650_20230509T125819_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_20230509T143132_20230509T143208_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_20230509T143236_20230509T143750_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_20230509T160955_20230509T161040_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_20230509T161045_20230509T161621_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_20230509T161622_20230509T161901_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_20230509T174649_20230509T175408_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_20230509T210304_20230509T210347_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230509T160012_20230509T160413_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 (20 Hz)

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.

Number of products with errors:

88

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230508T234750_20230509T000500_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

Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230509T034804_20230509T053525_C001  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T045255_C001  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  DCGA Altimeter Range and Backscatter Quality Flags have been set for one or more recor			
Corp. Silk NOPM 2 2000000100314 200000110030 CORP.  Corp. Silk NOPM 2 200000110031 200000110030 CORP.  Corp. Silk NOPM 2 200000110031 200000110030 CORP.  Afficiate Reging and Extractional Conference	CS_OFFL_SIR_NOPM_2_20230509T000649_20230509T002105_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SCORTLISE NOTHE 2 2008000100413 200000100400 COST  COSTILISE NOTHE 2 2008000100400 20000100400 COST  COSTILISE NOTHE 2 2008000100400 20000100400 COST  COSTILISE NOTHE 2 20080001004013 200000010400 COST  COSTILISE NOTHE 2 20080001004013 200000010400 COST  COSTILISE NOTHE 2 20080001004013 200000010400 COST  COSTILISE NOTHE 2 2008000104000 2000010400 COST  COSTILISE NOTHE 2 2008000104000 200000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20230509T002837_20230509T003041_C001	3,7	
DR. CHEL SR. NCPM 2 2000000110130 200000110100 C011  CR. CHEL SR. NCPM 2 2000000110130 200000110130 C011  CR. CHEL SR. NCPM 2 2000000110130 C011  CR. CHEL S	CS_OFFL_SIR_NOPM_2_20230509T003741_20230509T005128_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
LE OIFE, SIR NOPM 2 2020009101310 2020009101540 COID  COOR Altered Pages 40 A. What are flavorated couldy flower to the control of the page of of t	CS_OFFL_SIR_NOPM_2_20230509T005459_20230509T010423_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Les Coffe, Sill, NOPM, 2, approximation (1942), processor (1942),	CS_OFFL_SIR_NOPM_2_20230509T013113_20230509T014350_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
using Basecuster Quality, COCCA Affinisher Range, Californian Range, SSHA, SWH and Backscatter Quality Range have been set Californian Range with Backscatter Quality, COCCA Affinisher Range, Californian Range, SSHA, SWH and Backscatter Quality COCCA Affinisher Range, SSHA, SWH and Backscatter Quality Range Range Age and Backscatter Quality Range Ra	CS_OFFL_SIR_NOPM_2_20230509T014925_20230509T015746_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Baskecter Coulty  CS_OFFI_SIR_NOPM_2_000000017601760 20000001760415 C010  SS_OFFI_SIR_NOPM_2_000000017601760 20000001760415 C010  SS_OFFI_SIR_NOPM_2_000000017601760 20000001760415 C010  SS_OFFI_SIR_NOPM_2_000000017601760 20000001760415 C010  SS_OFFI_SIR_NOPM_2_0000000176040 20000001760415 C010  SS_OFFI_SIR_NOPM_2_0000000176040 20000001760415 C010  SS_OFFI_SIR_NOPM_2_0000000176040 20000001760415 C010  SS_OFFI_SIR_NOPM_2_0000000176040 200000017604055 C010  SS_OFFI_SIR_NOPM_2_0000000176040 20000001760405 C010  SS_OFFI_SIR_NOPM_2_0000000176040 200000017604050 C010  SS_OFFI_SIR_NOPM_2_0000000176040 200000017604050 C010  SS_OFFI_SIR_NOPM_2_00000001760400 20000001760400 C010  SS_OFFI_SIR_NOPM_2_00000001760400 20000001760400 C010  SS_OFFI_SIR_NOPM_2_00000001760400 000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20230509T015830_20230509T020252_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
ond Resociated Caulity on an art the OCIGA Alternete Range and Blackscatter Caulity Repairs Alternete Range and Blackscatter Caulity Repairs and Blackscatter Caulity Repairs Repairs Caulity Repairs R	CS_OFFL_SIR_NOPM_2_20230509T020637_20230509T021447_C001		
and Backscatter Quality And Teles COCCA Mitmeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20205091704524_20205091704525_C001  CS_OFFL_SIR_NOPM_2_202050917054524_20205091705325_C001  CS_OFFL_SIR_NOPM_2_20205091705455_20205091704556_C001  CS_OFFL_SIR_NOPM_2_20205091705455_20205091704556_C001  CS_OFFL_SIR_NOPM_2_20205091705552_20205091704556_C001  CS_OFFL_SIR_NOPM_2_20205091705525_20205091704556_C001  CS_OFFL_SIR_NOPM_2_20205091705525_20205091704556_C001  CS_OFFL_SIR_NOPM_2_20205091705525_20205091704556_C001  CS_OFFL_SIR_NOPM_2_20205091705525_202050917052510_C001  CS_OFFL_SIR_NOPM_2_202050917052510_20050917052510_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052510_C001  CS_OFFL_SIR_NOPM_2_202050917052446_2020509917052544_C001  CS_OFFL_SIR_NOPM_2_202050917052446_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052540_C001  CS_OFFL_SIR_NOPM_2_20205091705252_202050917052550_C001  CS_OFFL_SIR_NOPM_2_202	CS_OFFL_SIR_NOPM_2_20230509T021720_20230509T023244_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230609T04804_0230609T058325_O011  CS_OFFL_SIR_NOPM_2_20230609T05867_20230509T04956_O011  CS_OFFL_SIR_NOPM_2_20230609T05867_20230509T04955_O011  CS_OFFL_SIR_NOPM_2_20230609T045247_20230509T04955_O011  CS_OFFL_SIR_NOPM_2_20230609T045247_20230509T04955_O011  CS_OFFL_SIR_NOPM_2_20230609T045247_20230509T04955_O011  CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T04955_O011  CS_OFFL_SIR_NOPM_2_20230509T045244_20230509T052543_O011  CS_OFFL_SIR_NOPM_2_20230509T045244_20230509T052543_O011  CS_OFFL_SIR_NOPM_2_20230509T055334_20230509T052543_O011  CS_OFFL_SIR_NOPM_2_20230509T055332_20230509T053334_O011  CS_OFFL_SIR_NOPM_2_20230509T054392_20230509T053334_O011  CS_OFFL_SIR_NOPM_2_20230509T054492_00230509T054392_O011  Alterior Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T0642_20230509T054395_O011  Alterior Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T0642_20230509T054395_O011  Alterior Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T0642_20230509T07120_O011  Alterior Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T0642_20230509T07120_O011  CS_OFFL_SIR_NOPM_2_20230509T07441_20230509T075355_O011	CS_OFFL_SIR_NOPM_2_20230509T031538_20230509T034215_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscater Quality CS_OFFL_SIR_NOPM_2_20230509T045057_20230509T041958_CO01  CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T045255_CO01  CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T045255_CO01  CS_OFFL_SIR_NOPM_2_20230509T045304_20230509T045255_CO01  CS_OFFL_SIR_NOPM_2_20230509T045304_20230509T045255_CO01  CS_OFFL_SIR_NOPM_2_20230509T045304_20230509T052102_CO01  CS_OFFL_SIR_NOPM_2_20230509T045304_20230509T052543_CO01  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_CO01  CS_OFFL_SIR_NOPM_2_20230509T052732_20230509T053334_CO01  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T053334_CO01  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T053334_CO01  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T053334_CO01  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T0505250_CO01  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T0505250_CO01  CS_OFFL_SIR_NOPM_2_20230509T0505252_20230509T0605250_CO01  CS_OFFL_SIR_NOPM_2_20230509T0505252_20230509T0605250_CO01  CS_OFFL_SIR_NOPM_2_20230509T0505252_20230509T060595_CO01  CS_OFFL_SIR_NOPM_2_20230509T050552_20230509T060595_CO01  CS_OFFL_SIR_NOPM_2_20230509T064250_CO01  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T060595_CO01  CS_OFFL_SIR_NOPM_2_20230509T06422_20230509T06595_CO01  CS_OFFL_SIR_NOPM_2_20230509T06422_20230509T06595_CO01  CS_OFFL_SIR_NOPM_2_20230509T06422_20230509T06595_CO01  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509	CS_OFFL_SIR_NOPM_2_20230509T034524_20230509T034728_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T045255_C001  CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T045255_C001  CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T052102_C001  CS_OFFL_SIR_NOPM_2_20230509T04534_20230509T052102_C001  CS_OFFL_SIR_NOPM_2_20230509T04534_20230509T052102_C001  CS_OFFL_SIR_NOPM_2_20230509T04534_20230509T052102_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052544_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052544_C001  CS_OFFL_SIR_NOPM_2_20230509T052545_C001  CS_OFFL_SIR_NOPM_2_20230509T052545_C001  CS_OFFL_SIR_NOPM_2_20230509T053532_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T053524_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T053524_C001  CS_OFFL_SIR_NOPM_2_20230509T053524_C001  CS_OFFL_SIR_NOPM_2_20230509T053524_C001  CS_OFFL_SIR_NOPM_2_20230509T053525_C001  CS_OFFL_SIR_NOPM_2_20230509T054454_20230509T061509_C001  CS_OFFL_SIR_NOPM_2_20230509T061419_20230509T061509_C001  CS_OFFL_SIR_NOPM_2_20230509T076425_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T076425_20230509T075555_C001  CS_OFFL_SIR_NOPM_2_20230509T07642_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076452_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076453_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076453_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075555_C001  CCS_OFFL_SIR_NOPM_2_2023050	CS_OFFL_SIR_NOPM_2_20230509T034804_20230509T035325_C001		
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230509T045304_20230509T052102_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T0525242_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052522_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052523_20230509T052543_C001  CS_OFFL_SIR_NOPM_2_20230509T052532_20230509T05250_C001  CS_OFFL_SIR_NOPM_2_20230509T052532_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T052532_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T052532_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T062552_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T06250_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065309_C001  CS_OFFL_SIR_NOPM_2_20230509T07642_20230509T065355_C001  CS_OFFL_SIR_NOPM_2_20230509T07642_20230509T075255_C001  CS_OFFL_SIR_NOPM_2_20230509T07642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T07642_20230509T075255_C001  CS_OFFL_SIR_NOPM_2_20230509T076582_20230509T075255_C001  CS_OFFL_SIR_NOPM_2_20230509T075582_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T085941_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T085941_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T085941_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T085941_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075682_20230509T085941_C001  CS_OFFL_SIR_NOPM_2_20230509T08647_20230509T	CS_OFFL_SIR_NOPM_2_20230509T035657_20230509T041958_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 set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCG Altimeter Range and Backscatter Quality Flags and the CCG Altimeter Range and Backscatter Quality Flags and the CCG Altimeter Range and Backscatter Quality Flags and the CCG Altimeter Range and Backscatter Quality Flags and the CCG Altimeter Range and Backscatter Quality Flags and the CCG Altimeter Range and Backscatter Quality Flags and the CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more record	CS_OFFL_SIR_NOPM_2_20230509T045247_20230509T045255_C001		
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230509T052732_20230509T053334_C001  CS_OFFL_SIR_NOPM_2_20230509T052732_20230509T060250_C001  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T060250_C001  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T060250_C001  CS_OFFL_SIR_NOPM_2_20230509T061149_20230509T061309_C001  CS_OFFL_SIR_NOPM_2_20230509T061149_20230509T061309_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T0642_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T073535_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T0750	CS_OFFL_SIR_NOPM_2_20230509T045304_20230509T052102_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T060250_C001  CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T060250_C001  CS_OFFL_SIR_NOPM_2_20230509T061149_20230509T061309_C001  CS_OFFL_SIR_NOPM_2_20230509T061149_20230509T061309_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T070558_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T07058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T0846447_C001  CS_OFFL_SIR_NOPM_2_20230509T0846447_C001  CS_O	CS_OFFL_SIR_NOPM_2_20230509T052446_20230509T052543_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T076642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T08547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T08547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_NOPM_2_20230509T052732_20230509T053334_C001		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 Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065957_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CCOM_Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOM_Altimeter R	CS_OFFL_SIR_NOPM_2_20230509T053523_20230509T060250_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_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075055_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T0846543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T0846543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T0846	CS_OFFL_SIR_NOPM_2_20230509T061149_20230509T061309_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084643_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084643_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084643_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084643_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084643_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509T0846450_20230509T084647_C001  CCCCS_OFFL_SIR_NOPM_2_20230509	CS_OFFL_SIR_NOPM_2_20230509T062655_20230509T065957_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_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084550_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084550_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084550_20230509T084647	CS_OFFL_SIR_NOPM_2_20230509T070642_20230509T071210_C001		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 Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084550_20230509T084650_2023050	CS_OFFL_SIR_NOPM_2_20230509T071431_20230509T072000_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084550_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084550_20230509T084647_C001  CS_OFFL_SIR_NOPM_2_20230509T084650_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_20230509T08460_202	CS_OFFL_SIR_NOPM_2_20230509T075058_20230509T075355_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  Backscatter Quality for one or more records  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084543_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084550_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084550_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084550_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084550_202305091084647_C001  CS_OFFL_SIR_NOPM_2_202305091084650_202305091085059_C001	CS_OFFL_SIR_NOPM_2_20230509T080547_20230509T083941_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20230509T084543_20230509T084647_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_NOPM_2_20230509T084650_20230509T085059_C001		

CS_OFFL_SIR_NOPM_2_20230509T085353_20230509T091238_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_20230509T091952_20230509T092108_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_20230509T094429_20230509T101759_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_20230509T102116_20230509T102546_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_20230509T103409_20230509T103539_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_20230509T103647_20230509T110816_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_20230509T112452_20230509T112547_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_20230509T112647_20230509T114116_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_20230509T114118_20230509T114238_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_20230509T114353_20230509T115732_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_20230509T115928_20230509T120445_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_20230509T120504_20230509T120517_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_20230509T121507_20230509T122824_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_20230509T123038_20230509T124313_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_20230509T124605_20230509T124658_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_20230509T131005_20230509T131821_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_20230509T132208_20230509T133620_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_20230509T133855_20230509T134357_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_20230509T135229_20230509T135331_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_20230509T135445_20230509T135627_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_20230509T135903_20230509T140449_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_20230509T140927_20230509T141418_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_20230509T141541_20230509T141632_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_20230509T141701_20230509T142250_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_20230509T145425_20230509T151503_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_20230509T151920_20230509T152315_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_20230509T152953_20230509T155320_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_20230509T162600_20230509T162602_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_20230509T163012_20230509T165513_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_20230509T165707_20230509T170229_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_20230509T170236_20230509T170601_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_20230509T170932_20230509T174212_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_20230509T180458_20230509T180506_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_20230509T180616_20230509T182555_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_20230509T182859_20230509T183437_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_20230509T183709_20230509T184508_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_20230509T184853_20230509T192219_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_20230509T193553_20230509T193644_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_20230509T200412_20230509T201342_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_20230509T202831_20230509T210225_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_20230509T211348_20230509T211829_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_20230509T212222_20230509T212227_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_20230509T213303_20230509T213905_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_20230509T214053_20230509T215147_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_20230509T220800_20230509T223739_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_20230509T223848_20230509T224058_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_20230509T224220_20230509T224227_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_20230509T225705_20230509T230405_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_20230509T230424_20230509T232837_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_20230509T234707_20230509T235044_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_NOPN_2_20230509T101929_20230509T102116_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_NOPN_2_20230509T184508_20230509T184620_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_NOPR_2_20230509T020252_20230509T020431_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_NOPR_2_20230509T023516_20230509T023517_C001	0 ,,	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230509T034215_20230509T034406_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_NOPR_2_20230509T035557_20230509T035657_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_NOPR_2_20230509T060955_20230509T061149_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_NOPR_2_20230509T072000_20230509T072255_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230509T124658_20230509T124804_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_NOPR_2_20230509T143827_20230509T143838_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230509T224431_20230509T224555_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

### L2 Quality Flags (20 Hz 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20230509T002446_20230509T002837_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_20230509T003543_20230509T003720_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_20230509T010423_20230509T010647_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_20230509T012130_20230509T012237_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_20230509T012333_20230509T012435_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_20230509T014532_20230509T014547_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_20230509T021447_20230509T021634_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_20230509T030046_20230509T030635_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_20230509T034728_20230509T034803_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_20230509T042117_20230509T042213_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_20230509T043500_20230509T043639_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_20230509T062303_20230509T062655_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_20230509T080157_20230509T080419_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_20230509T091238_20230509T091605_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_20230509T115751_20230509T115928_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_20230509T124804_20230509T124816_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_20230509T125040_20230509T125255_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_20230509T125819_20230509T125956_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_20230509T130701_20230509T131005_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_20230509T135331_20230509T135444_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_20230509T141418_20230509T141541_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_20230509T142618_20230509T142931_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_20230509T151614_20230509T151920_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_20230509T155811_20230509T160012_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_20230509T160413_20230509T160535_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_20230509T160600_20230509T160955_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_20230509T161040_20230509T161044_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_20230509T162915_20230509T163011_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_20230509T165546_20230509T165707_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_20230509T170602_20230509T170723_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_20230509T174212_20230509T174648_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_20230509T175408_20230509T175542_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_20230509T193321_20230509T193507_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_20230509T195639_20230509T195732_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_20230509T220100_20230509T220445_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_20230509T220452_20230509T220600_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_20230509T224555_20230509T224611_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_20230509T234008_20230509T234217_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_20230509T002105_20230509T002446_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_20230509T003720_20230509T003741_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_20230509T005258_20230509T005459_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_20230509T011544_20230509T011740_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_20230509T011740_20230509T012130_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_20230509T012435_20230509T012616_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_20230509T012626_20230509T012910_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_20230509T014350_20230509T014532_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_20230509T014547_20230509T014801_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_20230509T030635_20230509T030857_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_20230509T034215_20230509T034406_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_20230509T043158_20230509T043409_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_20230509T043639_20230509T044038_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_20230509T052102_20230509T052325_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_20230509T060955_20230509T061149_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_20230509T061310_20230509T061409_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_20230509T061507_20230509T061852_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_20230509T061917_20230509T062303_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_20230509T065958_20230509T070315_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_20230509T071327_20230509T071431_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_20230509T074644_20230509T074941_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_20230509T075355_20230509T080157_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_20230509T083942_20230509T084222_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_20230509T093050_20230509T093219_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_20230509T093437_20230509T094139_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_20230509T111340_20230509T112056_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_20230509T120458_20230509T120504_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_20230509T120857_20230509T120949_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_20230509T121028_20230509T121507_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_20230509T122824_20230509T123038_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_20230509T124313_20230509T124605_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_20230509T124816_20230509T125039_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_20230509T132029_20230509T132208_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_20230509T143236_20230509T143750_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_20230509T151503_20230509T151614_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_20230509T161045_20230509T161621_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_20230509T161958_20230509T162121_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_20230509T170723_20230509T170932_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_20230509T174649_20230509T175408_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_20230509T175734_20230509T175917_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_20230509T184620_20230509T184853_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_20230509T192339_20230509T192417_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_20230509T193951_20230509T194102_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_20230509T200116_20230509T200153_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_20230509T202502_20230509T202831_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_20230509T210304_20230509T210347_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_20230509T211830_20230509T212221_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_20230509T224124_20230509T224141_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_20230509T224154_20230509T224200_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_20230509T232837_20230509T233411_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 & 1 Hz PLRM)

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

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

Number of products with errors:

205

### 5.7 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20 Hz)

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.

### L2 Retracking Flags (20 Hz 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:

157

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	170	170	2	168	0
SIR_NOPR1B	131	131	0	131	0
SIR_NOPN1B	110	110	1	109	0
SIR_NOPM_2	170	170	114	56	0
SIR_NOPR_2	131	131	50	81	0
SIR_NOPN_2	110	110	40	70	0

### 7.1 QCC Errors

Number of QCC reports with errors:

0

### 7.2 QCC Warnings

Number of QCC reports with warnings

1869

Total number of occurrences of each warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_NOPM1B	168	0	0	0	0	0	0
SIR_NOPM_2	0	41	41	0	44	0	36
SIR_NOPN1B	108	0	0	0	0	0	0
SIR_NOPN_2	0	9	33	2	24	22	16
SIR_NOPR1B	127	0	0	0	0	0	0
SIR_NOPR_2	0	32	48	2	35	28	21

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	38	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	5	0	0	0	25	0	36
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	12	1	0	44	0	52	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	28	0	0	5	32	0	9
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	31	23	46	61	33
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	43	0	3	65	38	8

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	37	0	1	0	0	0	
SIR_NOPN1B	0	0	0	0	49	0	
SIR_NOPN_2	26	31	15	2	0	0	
SIR_NOPR1B	0	0	0	0	131	3	
SIR_NOPR_2	44	50	5	0	0	0	

Test Description Key:	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					
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean - NetCDF					
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean					
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					

RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	HangeSignificantwaveHeigntOceanExcludingPolarFDZNetGDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF		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:

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