

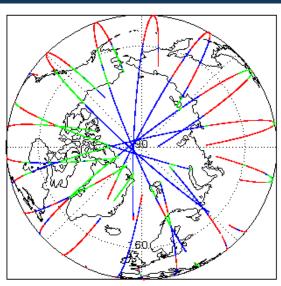
# 1. Overview

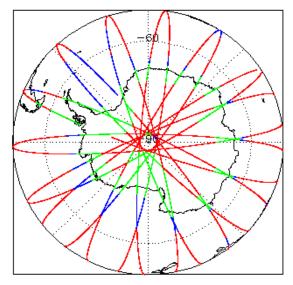
Report Production:	01-May-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

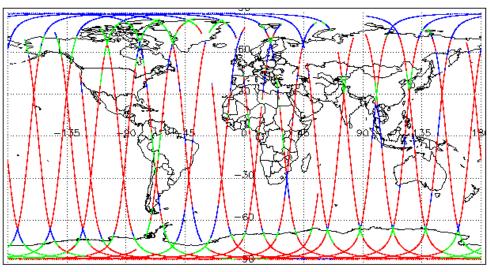
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

ı	Mission / Instrument News	
	29-Apr-2020	None
	30-Apr-2020	None
	01-May-2020	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 IOPR and IOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

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:

Ω

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

0

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

26

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200430T124753_20200430T132040_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200430T193000_20200430T193931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T074135_20200430T074247_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T074419_20200430T074643_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T082325_20200430T082445_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T092056_20200430T092319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T092336_20200430T092520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T115159_20200430T115452_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T124255_20200430T124753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T140129_20200430T140331_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T141039_20200430T141131_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T141320_20200430T141413_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T190750_20200430T191301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T200546_20200430T201159_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200430T204747_20200430T205147_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T005749_20200430T005844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T010550_20200430T011033_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T092635_20200430T092853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T105622_20200430T110044_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T141413_20200430T142200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T154114_20200430T154223_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T155426_20200430T160444_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T173347_20200430T174105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T174330_20200430T174443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T204416_20200430T204653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200430T211749_20200430T211940_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

## 5.3 L2 Auxiliary Data File Usage Check

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

### 5.4 L2 Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

Number of products with errors:

42

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200430T115529_20200430T122459_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_20200430T014650_20200430T014809_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_20200430T023339_20200430T023510_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_20200430T032608_20200430T032734_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_20200430T033244_20200430T033550_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
CS_OFFL_SIR_NOPN_2_20200430T050640_20200430T050936_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_20200430T051147_20200430T051709_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_20200430T060239_20200430T060509_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_20200430T064622_20200430T064857_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_20200430T074135_20200430T074247_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200430T082325_20200430T082445_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_20200430T092056_20200430T092319_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_20200430T092336_20200430T092520_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_20200430T100340_20200430T100531_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_20200430T101354_20200430T101604_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_20200430T105552_20200430T105621_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_20200430T110044_20200430T110516_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_20200430T114316_20200430T114455_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_20200430T132311_20200430T132653_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_20200430T150239_20200430T150557_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_20200430T151109_20200430T151235_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_20200430T155327_20200430T155426_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_20200430T173232_20200430T173347_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_20200430T190750_20200430T191301_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_20200430T200546_20200430T201159_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_20200430T204747_20200430T205147_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_20200430T213627_20200430T213843_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_20200430T214512_20200430T214828_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_20200430T222620_20200430T222942_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_20200430T232607_20200430T232722_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_20200430T011558_20200430T011646_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_20200430T042703_20200430T043717_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_20200430T073502_20200430T073906_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_20200430T085220_20200430T085838_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_20200430T105622_20200430T110044_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_20200430T123026_20200430T124255_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_20200430T141413_20200430T142200_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_20200430T155426_20200430T160444_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_20200430T173347_20200430T174105_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_20200430T191301_20200430T191820_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_20200430T205147_20200430T205425_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_20200430T205425_20200430T205839_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

# 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

Product

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.

Test Failed

Description

- > 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.

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Number of products with errors:

CB_OFFL_SIR_NOPM_2_20200430T00401_20200430T00531_C001  and Sebasoation Caulary, OCC Amender Range and Bedasoation Caularly Flags have been set for our or more records.  CB_OFFL_SIR_NOPM_2_20200430T00401_20200430T004016_C001  Bodasoation Caularly  Bodasoation Caularly  CB_OFFL_SIR_NOPM_2_20200430T00401_20200430T004016_C001  Bodasoation Caularly  CB_OFFL_SIR_NOPM_2_20200430T00401_20200430T00406_C001  Bodasoation Caularly  CB_OFFL_SIR_NOPM_2_20200430T00401_20200430T00406_C001  Bodasoation Caularly  CB_OFFL_SIR_NOPM_2_20200430T00401_20200430T00406_C001  Bodasoation Caularly  Bodasoation Caul	. 104401		2001.pao.
Backscaller Quality  for one or more records.  Specially, COG  GFFL_SIR_NOPM_2_20201430T00256_2020430T001692_C001  CS_OFFL_SIR_NOPM_2_20201430T002514_20200430T005096_C001  CS_OFFL_SIR_NOPM_2_20201430T01256_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20201430T01256_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20201430T01256_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20201430T01256_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20201430T01406_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01406_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01406_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01406_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01406_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01406_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01406_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01403_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01403_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01403_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T01403_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T015301_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T015031_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T015031_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T015031_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T015031_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T015031_20200430T015300_C001  CS_OFFL_SIR_NOPM_2_20201430T015031_20200430T015250_C001  CS_OFFL_SIR_NOPM_2_20201430T015031_20200430T015250_C001  CS_OFFL_SIR_NOPM_2_20201430T050314_20200430T015250_C001  CS_OFFL_SIR_NOPM_2_20201430T050314_20200430T015050_C001  CS_OFFL_SIR_NOPM_2_20201430T050314_20200430T015050_C001  CS_OFFL_SIR_NOPM_2_20201430T050314_20200430T015050_C001  CS_OFFL_SIR_NOPM_2_20201430T050314_20200430T015050_C001  CS_OFFL_SIR_NOPM_2_20201430T050314_20200430T015050_C001  CS_OFFL_SIR_NOPM_2_20201430T050314_20200430T015050_C001  CS_OFFL_SIR_NOPM_2_20201430T050304_20200430T0505000_C001  CS_OFFL_SIR_NOPM_2_20201430T050304_20200430T0505000_C001  CS_OFFL_SIR_NOPM_2_20201430T050304_20200430T0505000_C001  CS_OF	CS_OFFL_SIR_NOPM_2_20200429T234009_20200430T000631_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SeySerFL_SIR_NOPM_2_20200430T002014_20200430T00320_0001  CS_OFFL_SIR_NOPM_2_20200430T002014_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20200430T013989_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20200430T013989_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20200430T013989_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20200430T013989_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20200430T013989_20200430T013500_C001  CS_OFFL_SIR_NOPM_2_20200430T013981_20200430T013530_C001  CS_OFFL_SIR_NOPM_2_20200430T013981_20200430T013530_C001  CS_OFFL_SIR_NOPM_2_20200430T013981_20200430T013530_C001  CS_OFFL_SIR_NOPM_2_20200430T013981_20200430T013530_C001  CS_OFFL_SIR_NOPM_2_20200430T013981_20200430T013530_C001  CS_OFFL_SIR_NOPM_2_20200430T03531_20200430T03538_C001  CS_OFFL_SIR_NOPM_2_20200430T03531_20200430T03538_C001  CS_OFFL_SIR_NOPM_2_20200430T03531_20200430T03538_C001  CS_OFFL_SIR_NOPM_2_20200430T035384_C001  CS_OFFL_SIR_NOPM_2_20200430T035384_C001  CS_OFFL_SIR_NOPM_2_20200430T035384_C0001  CS_OFFL_SIR_NOPM_2_20200430T03548_C000430T03548_C0001  CS_OFFL_SIR_NOPM_2_20200430T03548_C000430T03548_C000430T03548_C0004  CS_OFFL_SIR_NOPM_2_20200430T03548_C000430T03548_C0004  CS_OFFL_SIR_NOPM_2_20200430T03548_C000430T03548_C0004  CS_OFFL_SIR_NOPM_2_20200430T03548_C000430T03548_C0004  CS_OFFL_SIR_NOPM_2_20200430T03548_C000430T03548_C000440T03548_C000440T	CS_OFFL_SIR_NOPM_2_20200430T000810_20200430T001318_C001		
and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T012451_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20200430T013958_20200430T013207_C001  CS_OFFL_SIR_NOPM_2_20200430T013958_20200430T014517_C001  CS_OFFL_SIR_NOPM_2_20200430T014809_20200430T015359_C001  CS_OFFL_SIR_NOPM_2_20200430T014809_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T01503_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032336_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T0303244_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T0303244_C001  CS_OFFL_SIR_NOPM_2_20200430T0333841_20200430T033244_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T033244_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044133_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044133_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044153_C001  CS_OFFL_SIR_NOPM_2_20200430T044234_20200430T054016_C001  CS_OFFL_SIR_NOPM_2_20200430T043714_20200430T054016_C001  CS_OFFL_SIR_NOPM_2_20200430T043714_20200430T054016_C001  CS_OFFL_SIR_NOPM_2_20200430T043714_20200430T054016_C001  CS_OFFL_SIR_NOPM_2_20200430T043714_20200430T054016_C001  CS_OFFL_SIR_NOPM_2_20200430T044234_20200430T054016_C001  CS_OFFL_SIR_NOPM_2_20200430T043714_20200430T054016_C001  CS_OFFL_SIR_NOPM_2_20200430T044234_20200	CS_OFFL_SIR_NOPM_2_20200430T001325_20200430T001652_C001		
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200430T013958_20200430T014617_C001  CS_OFFL_SIR_NOPM_2_20200430T014809_20200430T015350_C001  CS_OFFL_SIR_NOPM_2_20200430T014809_20200430T015350_C001  CS_OFFL_SIR_NOPM_2_20200430T014809_20200430T015350_C001  CS_OFFL_SIR_NOPM_2_20200430T015433_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T015433_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T015433_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T015431_20200430T023308_C001  CS_OFFL_SIR_NOPM_2_20200430T03541_20200430T023308_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032534_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032534_C001  CS_OFFL_SIR_NOPM_2_20200430T033244_20200430T032544_C001  CS_OFFL_SIR_NOPM_2_20200430T0333841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T0333841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T0333841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T0333841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T04105_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T04105_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T04105_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T04105_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T054165_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T054165_C001  CS_OFFL_SIR_NOPM_2_20200430T060369_20200430T051146_C001  CCoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CCoan Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCoan Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter	CS_OFFL_SIR_NOPM_2_20200430T002014_20200430T005406_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_20200430T014809_20200430T01530_C001  CS_OFFL_SIR_NOPM_2_20200430T015433_20200430T015562_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T015562_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T015562_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T015562_C001  CS_OFFL_SIR_NOPM_2_20200430T01533_20200430T032308_C001  CS_OFFL_SIR_NOPM_2_20200430T030319_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030374_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030374_20200430T032546_C001  CS_OFFL_SIR_NOPM_2_20200430T033341_20200430T033244_C001  CS_OFFL_SIR_NOPM_2_20200430T033341_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T051046_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T05146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T051846_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_C001  CS_OFFL_SIR_NO	CS_OFFL_SIR_NOPM_2_20200430T012451_20200430T013207_C001		
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200430T015433_2020430T015552_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200430T015433_20200430T015552_C001  CS_OFFL_SIR_NOPM_2_20200430T015931_20200430T023308_C001  CS_OFFL_SIR_NOPM_2_20200430T015931_20200430T023308_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T032544_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T0305244_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T030541305_C001  CS_OFFL_SIR_NOPM_2_20200430T030519_20200430T0305009_C001  CS_OFFL_SIR_NOPM_2_20200430T0305009_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T05009_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T056816_C001  CS_OFFL_SIR_NOPM_2_20200430T0568616_C001  CS_OFFL_SIR_N	CS_OFFL_SIR_NOPM_2_20200430T013958_20200430T014617_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200430T015931_20200430T023308_C001  CS_OFFL_SIR_NOPM_2_20200430T03931_20200430T033308_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030732734_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030732734_20200430T033244_C001  CS_OFFL_SIR_NOPM_2_20200430T033774_20200430T033244_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041153_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041153_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041166_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T050368_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T050036_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_202004	CS_OFFL_SIR_NOPM_2_20200430T014809_20200430T015350_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001  CS_OFFL_SIR_NOPM_2_20200430T032734_20200430T032244_C001  CS_OFFL_SIR_NOPM_2_20200430T032734_20200430T032244_C001  CS_OFFL_SIR_NOPM_2_20200430T032734_20200430T032244_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T04153_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T044153_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T05009_C001  CS_OFFL_SIR_NOPM_2_20200430T044234_20200430T05009_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T050586_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T050586_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T0562659_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T0562659_20200430T0562611_C001  CS_OFFL_SIR_NOPM_2_20200430T0562659_20200430T0562611_C001  CS_OFFL_SIR_NOPM_2_20200430T0562659_20200430T0562611_C001  CS_OFFL_SIR_NOPM_2_20200430T0562659_20200430T0562611_C001  CS_OFFL_SIR_NOPM_2_20200430T0562659_20200430T0564022_C001  CS_OFFL_SIR_NOPM_2_20200430T0562659_2020043	CS_OFFL_SIR_NOPM_2_20200430T015433_20200430T015552_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T032734_20200430T033244_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T05036_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  COCOM Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  COCOM Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  COCOM Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  COCOM Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  COCOM Alti	CS_OFFL_SIR_NOPM_2_20200430T015931_20200430T023308_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044153_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044153_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T05062659_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T066659_20200430T066611_C001  CS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCS_OFFL_SIR_NOPM_2_20200430T066659_20200430T0664022_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_NOPM_2_20200430T030619_20200430T032536_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044153_C001  CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044153_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T050036_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T0500740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T0500740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T066659_20200430T064022_C001  And the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T066659_20200430T064022_C001  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T066659_20200430T064022_C001  COEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  COEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  COEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  COEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  COEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  COEAN Altimeter Ran	CS_OFFL_SIR_NOPM_2_20200430T032734_20200430T033244_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20200430T044234_20200430T050009_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T0506740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T064022_C001  CS_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  and the OCOG Altimeter Range and Backscatter Quality Flags have been or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T064022_C001  CS_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001	CS_OFFL_SIR_NOPM_2_20200430T033841_20200430T041305_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200430T04234_20200430T050009_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  CS_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  CS_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  CS_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20200430T043717_20200430T044153_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Cs_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  Cs_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  Cs_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  Cs_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  Cs_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  Cs_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  Cs_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  Backscatter Quality  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20200430T044234_20200430T050009_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  Cs_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and	CS_OFFL_SIR_NOPM_2_20200430T050936_20200430T051146_C001		
CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20200430T051846_20200430T054816_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20200430T060740_20200430T062611_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20200430T062659_20200430T064022_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20200430T065219_20200430T065557_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_20200430T065747_20200430T071317_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_20200430T071519_20200430T072440_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_20200430T074248_20200430T074418_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_20200430T074803_20200430T074910_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_20200430T075145_20200430T080359_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_20200430T081300_20200430T081634_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_20200430T082011_20200430T082123_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_20200430T083025_20200430T083459_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_20200430T083707_20200430T085220_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_20200430T093016_20200430T100305_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_20200430T100753_20200430T101353_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_20200430T101637_20200430T104218_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_20200430T111334_20200430T114128_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_20200430T114742_20200430T115159_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_20200430T115529_20200430T122459_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_20200430T124753_20200430T132040_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_20200430T132653_20200430T133233_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_20200430T133358_20200430T134016_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_20200430T142602_20200430T145956_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_20200430T150557_20200430T151109_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_20200430T151325_20200430T153245_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_20200430T155045_20200430T155109_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_20200430T160444_20200430T163819_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_20200430T164602_20200430T165015_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_20200430T165239_20200430T172043_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_NOPM_2_20200430T173058_20200430T173232_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_20200430T174443_20200430T174647_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_20200430T174701_20200430T175530_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_20200430T180011_20200430T180146_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_20200430T180149_20200430T181122_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_20200430T181318_20200430T181746_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_20200430T181934_20200430T182455_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_20200430T182501_20200430T182507_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_20200430T182513_20200430T182720_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_20200430T183608_20200430T184829_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_20200430T185029_20200430T185858_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_20200430T190011_20200430T190258_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_20200430T190425_20200430T190743_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_20200430T192329_20200430T192354_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_20200430T193000_20200430T193931_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_20200430T194133_20200430T194854_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_20200430T195004_20200430T195650_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_20200430T195900_20200430T200355_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_20200430T200412_20200430T200423_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_20200430T201159_20200430T201436_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_20200430T203126_20200430T203809_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_20200430T211941_20200430T213550_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_20200430T213843_20200430T214322_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_20200430T214935_20200430T222413_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_20200430T224916_20200430T231523_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_20200430T231718_20200430T232222_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_NOPM_2_20200430T232849_20200430T235604_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_20200430T235804_20200501T000057_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_20200430T015351_20200430T015433_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_20200430T023339_20200430T023510_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_20200430T181759_20200430T181934_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_20200430T205839_20200430T205856_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_20200430T224549_20200430T224916_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_20200430T231601_20200430T231718_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_NOPR_2_20200430T011558_20200430T011646_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_NOPR_2_20200430T145956_20200430T150239_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_20200430T174255_20200430T174326_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_NOPR_2_20200430T201436_20200430T201752_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

### L2 Quality Flags (20Hz PLRM)

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200430T001652_20200430T001822_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_20200430T005407_20200430T005609_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_20200430T005620_20200430T005749_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_20200430T010526_20200430T010550_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_20200430T015351_20200430T015433_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_20200430T015552_20200430T015707_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_20200430T024503_20200430T024510_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_20200430T024739_20200430T024837_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_20200430T033244_20200430T033550_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_20200430T051147_20200430T051709_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_20200430T060239_20200430T060509_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_20200430T064622_20200430T064857_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_20200430T072440_20200430T072759_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_20200430T074135_20200430T074247_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_20200430T080359_20200430T080926_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_20200430T082325_20200430T082445_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_20200430T083459_20200430T083644_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_20200430T090139_20200430T090456_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_20200430T092056_20200430T092319_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_20200430T092336_20200430T092520_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_20200430T100340_20200430T100531_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_20200430T104218_20200430T104540_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_20200430T105552_20200430T105621_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_20200430T111104_20200430T111319_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_20200430T115159_20200430T115452_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_20200430T124255_20200430T124753_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_20200430T132311_20200430T132653_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_20200430T133234_20200430T133348_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_20200430T134928_20200430T135302_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_20200430T142200_20200430T142330_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_20200430T151109_20200430T151235_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_20200430T153245_20200430T153601_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_20200430T155327_20200430T155426_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_20200430T163953_20200430T164342_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_20200430T190750_20200430T191301_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_20200430T192558_20200430T193000_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_20200430T195715_20200430T195900_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_20200430T200546_20200430T201159_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_20200430T202355_20200430T202956_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_20200430T204653_20200430T204657_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_20200430T213627_20200430T213843_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_20200430T214512_20200430T214828_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_20200430T224549_20200430T224916_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_20200430T000631_20200430T000635_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_20200430T010550_20200430T011033_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_20200430T011552_20200430T011555_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_20200430T015707_20200430T015930_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_20200430T023555_20200430T023612_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_20200430T024848_20200430T025233_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_20200430T025503_20200430T025823_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_20200430T033550_20200430T033841_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_20200430T050342_20200430T050639_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_20200430T051709_20200430T051846_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_20200430T062611_20200430T062659_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_20200430T064022_20200430T064621_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_20200430T073502_20200430T073906_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_20200430T074910_20200430T075144_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_20200430T085220_20200430T085838_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_20200430T092635_20200430T092853_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_20200430T105452_20200430T105552_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_20200430T105622_20200430T110044_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_20200430T114129_20200430T114316_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_20200430T123026_20200430T124255_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_20200430T132041_20200430T132311_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_20200430T140706_20200430T141031_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_20200430T141413_20200430T142200_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_20200430T142330_20200430T142408_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_20200430T145956_20200430T150239_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_20200430T155109_20200430T155327_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_20200430T155426_20200430T160444_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_20200430T163820_20200430T163952_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_20200430T173347_20200430T174105_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_20200430T182904_20200430T183608_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_20200430T184829_20200430T185028_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_20200430T191301_20200430T191820_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_20200430T191839_20200430T192023_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_20200430T193931_20200430T194133_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_20200430T201436_20200430T201752_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_20200430T205425_20200430T205839_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_20200430T211233_20200430T211429_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_20200430T211432_20200430T211739_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_20200430T214828_20200430T214934_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_20200430T224506_20200430T224548_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_20200430T231523_20200430T231601_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

 $\label{lem:currently} \textbf{Currently, there are several common flags raised in the Level 2 products, which are summarised below.}$ 

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

Number of products with errors: 172

### 5.7 L2 Ocean Retracking Quality Check

# L2 Retracking Flags (20Hz)

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

Ocean Retracking Quality Flag: This flag is currently set for products falling at ocean/ land boundaries, but this is expected.

## L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

132