

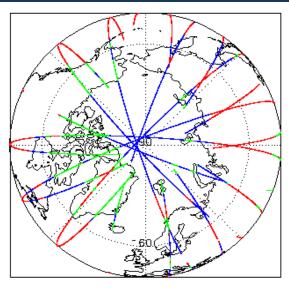
## 1. Overview

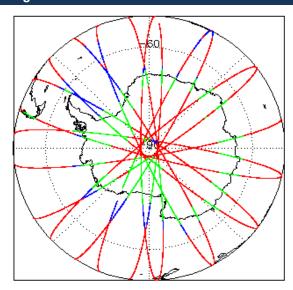
Report Production:	12-Mar-2021		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data		

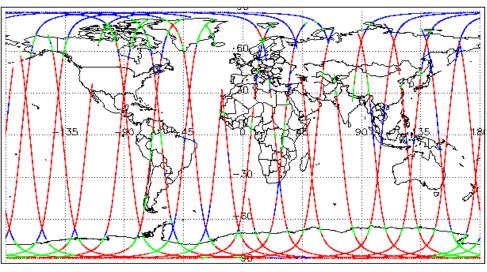
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1 and 7.2

Mission / Instru	Mission / Instrument News		
10-Mar-2021	None		
11-Mar-2021	None		
12-Mar-2021	Nothing planned		

# 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1

## 4. NOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

#### 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\_Inr 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:

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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. 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_20210311T100032_20210311T100209_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210311T153845_20210311T155355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210311T155624_20210311T160546_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210311T203618_20210311T210520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T012220_20210311T012435_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T030432_20210311T030529_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T094636_20210311T094700_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T112603_20210311T112655_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T135254_20210311T135829_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T153707_20210311T153845_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T162249_20210311T162357_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T180205_20210311T180759_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T193535_20210311T193559_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T212420_20210311T212823_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210311T225121_20210311T225225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T043439_20210311T043539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T043722_20210311T043851_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T094700_20210311T095203_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T101806_20210311T102108_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T141424_20210311T141515_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T142911_20210311T143109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T143112_20210311T143350_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T162612_20210311T163046_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T2111117_20210311T211317_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T224212_20210311T224314_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210311T225430_20210311T230312_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

## 5.3 L2 Auxiliary Data File Usage Check

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

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

### 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 Corection, 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

55. OFFL. SR. NOPN 2. 282103111105882 282103111105855 201031111058	Product	Test Failed	Description
See   Perf   Perf   Perf   Perf	CS_OFFL_SIR_NOPM_2_20210311T153845_20210311T155355_C001	Mean Dynamic Topography (1)	
Topography (1)  Topography (1)	CS_OFFL_SIR_NOPM_2_20210311T155624_20210311T160546_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
Topography (1) Topography (2) Topography (2) Topography (2) Topography (2) Topography (3) Topography (4) Topography (4) Topography (1) Topography (2) Topography (2) Topography (3) Topography (4) Topography (1) Topography (2) Topography (3) Topography (4) Topography (5) Topography (6) Topography (6) Topography (7) Topography (7) Topography (8) Topogr	CS_OFFL_SIR_NOPN_2_20210311T003250_20210311T003711_C001	` ''	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Search   S	CS_OFFL_SIR_NOPN_2_20210311T004254_20210311T004415_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
See	CS_OFFL_SIR_NOPN_2_20210311T012220_20210311T012435_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
Topography (1)  Topography (2)  Topography (2)  Topography (3)  Topography (3)  Topography (4)  Topography (5)  Topography (6)  Topography (7)  Topography (7)  Topography (8)  Topography (8)	CS_OFFL_SIR_NOPN_2_20210311T022031_20210311T022218_C001	Mean Dynamic Topography (1)	
Topography (1) Topography (2) Topography (2) Topography (3) Topography (4) Topography (4) Topography (5) Topography (5) Topography (5) Topography (5) Topography (6) Topography (6) Topography (7) Topogr	CS_OFFL_SIR_NOPN_2_20210311T030432_20210311T030529_C001	, ,	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and solution 1) and the Mean Dynamic Topography (1) and the Mean Dynamic Topogr	CS_OFFL_SIR_NOPN_2_20210311T035836_20210311T040100_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Descriptions of the Mean Sea Surface (1), Mean Dynamic Topography (1)  Sea OFFL_SIR_NOPN_2_202103117083738_20210311708402_0001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mea	CS_OFFL_SIR_NOPN_2_20210311T044228_20210311T044439_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
Topography (1) Topography (1) Topography (2) Topography (1) There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography (1) There is an error with the Msan Dynamic Topography (1) There is an error with the Msan Dynamic Topography (1) There is an error with the Msan Dynamic Topography (1) There is an error with the Msan Dynamic Topography (1) There is an error with the Msan Dynamic Topography (1) There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography (1) There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height for one or more records There is an error with the Msan Dynamic Topography height	CS_OFFL_SIR_NOPN_2_20210311T052843_20210311T053057_C001	Mean Dynamic Topography (1)	
Topography (1) There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Total Geocentric Ocean Tide Topography (1) Total Geocentric Ocean Tide Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (2) Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) Topography (3) Topography (4) Topography (4) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (4) Topography height (6) Topography height	CS_OFFL_SIR_NOPN_2_20210311T053738_20210311T054145_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Topography (2)  Sea OFFL_SIR_NOPN_2_20210311T120724_20210311T120840_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Mon-Equilibrium Long Period Ocean Tide (FES), Mon-	CS_OFFL_SIR_NOPN_2_20210311T061911_20210311T062303_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1) Total Geocentric Ocean  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the idial corrections for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1)	CS_OFFL_SIR_NOPN_2_20210311T085755_20210311T085933_C001	Mean Dynamic Topography (1)	
Topography (1)  Topography (2)  Topography (2)  Topography (1)  Topography (1)  Topography (2)  Topography (1)  Topography (2)  Topography (3)  Topography (3)  Topography (4)  Topography (4)  Topography (4)  Topography (5)  Topography (6)  Topography (6)  Topography (6)  Topography (8)  Topography (9)  Topography (9)  Topography (9)  Topography (9)  Topography (1)  Topography (1)	CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102920_C001	Mean Dynamic Topography (1)	
Topography (1), Total Geocentric Ocean Tide (FCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (FCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (FCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (PCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (PCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (PCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (PCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (PCS), Non-Equilibrium Long Period (COT), Total Geocentric Ocean Tide (PCS), Non-Equilibrium Long Period Ocean Tide (PCS), Non-Equil	CS_OFFL_SIR_NOPN_2_20210311T120724_20210311T120840_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1)  Topography (202103111136254_202103111136829_C001  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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  Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (SOT), Total Geocentric Ocean Tide (SOT), Total Geoc	CS_OFFL_SIR_NOPN_2_20210311T121349_20210311T121702_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
Topography (1)  Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the 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  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1), the Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1), the Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1), the Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) for one or or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for on	CS_OFFL_SIR_NOPN_2_20210311T134822_20210311T135057_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1)  Topography (2 20210311T142434 20210311T14202 20210311T152002 C001  Topography (1)  Topography (1)  Topography (1)  Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the 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  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (solution 1). There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and	CS_OFFL_SIR_NOPN_2_20210311T135254_20210311T135829_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (South of the Non-Equilib	CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1)  Topography (220210311T16249_20210311T16239_C001  Topography (1)  Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide  Topography (1)  Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide  Topography (1)  Topography (1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Non-Equilibrium Long Period Oce	CS_OFFL_SIR_NOPN_2_20210311T152717_20210311T153002_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-	CS_OFFL_SIR_NOPN_2_20210311T162249_20210311T162357_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Dynamic Topography (1)  Mean Dynamic Topography (2)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records	CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and
Topography (1), Total Geocentric Ocean Tide (GOT)  Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide (GOT)  Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records	CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20210311T185454_20210311T185721_C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records	CS_OFFL_SIR_NOPN_2_20210311T180205_20210311T180759_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
more records  CS_OFFL_SIR_NOPN_2_20210311T202425_20210311T202607_C001  Mean Dynamic Topography (1)  more records  There is an error with the Mean Dynamic Topography height for one or more records	CS_OFFL_SIR_NOPN_2_20210311T185454_20210311T185721_C001	· · ·	There is an error with the Mean Dynamic Topography height for one or
Mean Dynamic Topography (1) more records	CS_OFFL_SIR_NOPN_2_20210311T194220_20210311T194623_C001	Mean Dynamic Topography (1)	
	CS_OFFL_SIR_NOPN_2_20210311T202425_20210311T202607_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20210311T212420_20210311T212823_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_20210311T212420_20210311T212823_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20210311T220436_20210311T220806_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_20210311T220436_20210311T220806_C001	, ,	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_20210311T234347_20210311T234709_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_20210311T012629_20210311T013420_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_20210311T030529_20210311T031105_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_20210311T043439_20210311T043539_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_20210311T044439_20210311T045132_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_20210311T062303_20210311T062816_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_20210311T095548_20210311T095745_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_20210311T152219_20210311T152717_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_20210311T161610_20210311T161816_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_20210311T193726_20210311T194220_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_20210311T211117_20210311T211317_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_20210311T211419_20210311T212419_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_20210311T225430_20210311T230312_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)

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:

80

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210310T235755_20210311T000639_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_20210311T000925_20210311T003202_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_20210311T003711_20210311T003838_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_20210311T003845_20210311T004253_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_20210311T004433_20210311T005800_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_20210311T005948_20210311T010705_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_20210311T010800_20210311T011206_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_20210311T013818_20210311T014257_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_20210311T014347_20210311T021038_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_20210311T021209_20210311T021737_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_20210311T021743_20210311T021750_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_20210311T022840_20210311T024109_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_20210311T024132_20210311T025845_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210311T031457_20210311T031516_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_20210311T032019_20210311T033200_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_20210311T033404_20210311T034954_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_20210311T035137_20210311T035635_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_20210311T035714_20210311T035836_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_20210311T040544_20210311T041347_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_20210311T042236_20210311T043347_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_20210311T043414_20210311T043438_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_20210311T051329_20210311T052843_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_20210311T053057_20210311T053548_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_20210311T053629_20210311T053738_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_20210311T054205_20210311T061617_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_20210311T082318_20210311T084751_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_20210311T084921_20210311T085420_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_20210311T090049_20210311T093552_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_20210311T095203_20210311T095437_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_20210311T102108_20210311T102230_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_20210311T102430_20210311T102739_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_20210311T102920_20210311T103452_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_20210311T104002_20210311T111412_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_20210311T113806_20210311T114058_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_20210311T114715_20210311T120657_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_20210311T120840_20210311T121349_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_20210311T121907_20210311T125341_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_20210311T131826_20210311T132301_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.

00 0FFL 0ID NODM 0 000400447400040 000400447404400 0004	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20210311T132342_20210311T134123_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210311T134427_20210311T134517_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_20210311T135057_20210311T135254_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_20210311T135940_20210311T141355_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_20210311T141516_20210311T141714_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_20210311T142155_20210311T142910_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_20210311T143509_20210311T143525_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_20210311T144907_20210311T150631_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_20210311T150810_20210311T152219_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_20210311T153002_20210311T153205_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_20210311T153306_20210311T153707_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_20210311T153845_20210311T155355_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_20210311T155624_20210311T160546_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_20210311T162357_20210311T162458_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_20210311T163346_20210311T164450_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_20210311T165057_20210311T165741_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_20210311T170028_20210311T170514_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_20210311T170805_20210311T171610_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_20210311T171801_20210311T173340_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_20210311T181019_20210311T184414_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_20210311T184924_20210311T185454_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_20210311T185721_20210311T192240_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_20210311T195415_20210311T202309_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_20210311T202608_20210311T202711_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_20210311T202856_20210311T203343_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_20210311T203618_20210311T210520_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_20210311T211317_20210311T211419_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_20210311T212823_20210311T220232_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_20210311T221502_20210311T222125_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_20210311T225225_20210311T225430_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_20210311T230745_20210311T234200_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_20210311T234709_20210311T235223_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_20210311T235402_20210312T001402_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_20210311T025854_20210311T030016_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_20210311T044228_20210311T044439_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_20210311T063756_20210311T063916_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_20210311T112907_20210311T113027_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_20210311T153205_20210311T153306_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_20210311T225121_20210311T225225_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_20210311T014257_20210311T014347_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_20210311T150631_20210311T150809_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_20210311T180800_20210311T181018_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210311T003250_20210311T003711_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_20210311T004254_20210311T004415_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_20210311T010705_20210311T010800_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_20210311T012044_20210311T012135_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_20210311T012220_20210311T012435_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_20210311T021048_20210311T021209_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_20210311T030155_20210311T030232_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CO. GPFL_BIR_NCPN_2_201611T30008_201811T00100_CC01  COOP Allered Regular Death y FLING. OCCO. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. OCC. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. OCC. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. OCC. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. OCC. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. Proceedings of the Security Programs of Coop Allered Regular Death y FLING. Proceedings of the Security Procedings o	Compared to the compared of th	CC OFFI CID NODN 2 20040244T020422 20040244T020F00 C004	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
DR. OFFL. SIR. NOPN 2_38210311T04321_20210311T04325_CO.  CO. OFFL. SIR. NOPN 2_38210311T04321_2021031T04325_CO.  CO. OFFL. SIR. NOPN 2_3821031T04321_2021031T04325_CO.  CO. OFFL. SIR. NOPN 2_3821031T04321_2021031T04325_CO.  CO. OFFL. SIR. NOPN 2_3821031T04321_2021031T04325_CO.  CO. OFFL. SIR. NOPN 2_3821031T04325_CO.  CO. OFFL. SIR. NOPN 2_3821031T04335_CO.  CO. OFFL. SIR. NOPN 2_3821031T14335_CO.  CO. O	Delication   Del	CS_OFFL_SIR_NOPN_2_20210311T030432_20210311T030529_C001	OCOG Backscatter Quality	
CSC   CP4_SR_NOPN_2_RESISTITIONISE_SERVEDTH   CREATED   CREATE   CREATED	SCORPLISE NORM_2_28210311T04291_201031T04414_0001	CS_OFFL_SIR_NOPN_2_20210311T035836_20210311T040100_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CR_OPPL_SR_NOPPL_2_20010311T04404_201031T104404_2010  CR_OPPL_SR_NOPPL_2_2001031T044231_201031T104404_2010  CR_OPPL_SR_NOPPL_2_2001031T044231_201031T104404_2010  CR_OPPL_SR_NOPPL_2_2001031T044231_201031T04440_201031T04444_2010  CR_OPPL_SR_NOPPL_2_2001031T044231_201031T04444_2010  CR_OPPL_SR_NOPPL_2_2001031T044231_201031T04444_2010  CR_OPPL_SR_NOPPL_2_2001031T04231_201031T04444_2010  CR_OPPL_SR_NOPPL_2_2001031T04231_201031T04444_2010  CR_OPPL_SR_NOPPL_2_2001031T04314_201031T06181_C001  CR_OPPL_SR_NOPPL_2_2001031T04314_201031T06181_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06181_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06181_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T04041_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T06375_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T06375_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T06375_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T06375_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T06375_2001031T06383_2001  CR_OPPL_SR_NOPPL_2_2001031T06375_2001031T106383_2001  CR_OPPL_SR_NOPPL_2_2001031T106375_2001031T106383_2001  CR_OPPL_SR_NOPPL_2_2001031T106302_2001031T106383_2001  CR_OPPL_SR_NOPPL_2_2001031T106302_2001031T106393_2001  CR_OPPL_SR_NOPPL_2_2001031T106302_2001031T106393	Code   Description (Code	CS_OFFL_SIR_NOPN_2_20210311T041921_20210311T042011_C001		
CS_OFFL_SR_NOPN_2_20210311104038_20210311104049_C001  CS_OFFL_SR_NOPN_2_20210311104022_20210311104049_C001  CS_OFFL_SR_NOPN_2_20210311106078_20210311106078_C001  CS_OFFL_SR_NOPN_2_20210311106078_202103111106078_C001  CS_OFFL_SR_NOPN_2_202103111106078_202103111106078_C001  CS_OFFL_SR_NOPN_2_20210	CS_OFF_SR_NOPY_2_2020011106190_2021011106290_2021011106400_2021  CS_OFF_SR_NOPY_2_20200111061978_2021011106400_2021  CS_OFF_SR_NOPY_2_20200111061978_2021011106400_2021  CS_OFF_SR_NOPY_2_20200111061978_2021011106191_C021  CS_OFF_SR_NOPY_2_20200111061978_2021011106191_C021  CS_OFF_SR_NOPY_2_20200111061978_2021011106191_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106191_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106191_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106190_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106090_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106090_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106090_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106090_C021  CS_OFF_SR_NOPY_2_2020011106190_2020011106090_C021  CS_OFF_SR_NOPY_2_2020011106090_C021011106090_C021  CS_OFF_SR_NOPY_2_2020011106090_C021011106090	CS_OFFL_SIR_NOPN_2_20210311T042011_20210311T042236_C001		
CB_CFFL_SR_NOPH_2_20218311708278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_20210311708278_0001  CB_CFFL_SR_NOPH_2_202183117108278_202103117108278_0001  CB_CFFL_SR_NOPH_2_202183117108278_0001  CB_CFFL_SR_NOPH_2_202183117108278_0001  CB_CFFL_SR_NOPH_2_202183117108278_0001  CB_CFFL_SR_NOPH_2_202183117108278_0001  CB_CFFL_SR_NOPH_2_202	CS_OFFL_SR_NOPR_2_2020011T00478_20213111704430_CD01  and indisolation of administry Flags and Education Causity Flags have been set for control of the contr	CS_OFFL_SIR_NOPN_2_20210311T043851_20210311T044144_C001		
CS_OFFL_SIR_NOPN_2_20210311T002104_20210311T003706_2021031T003106_2001  CS_OFFL_SIR_NOPN_2_20210311T003706_2021031T003106_2001  CS_OFFL_SIR_NOPN_2_20210311T003706_2021031T003016_2001  CS_OFFL_SIR_NOPN_2_20210311T003706_2021031T003016_2001  CS_OFFL_SIR_NOPN_2_20210311T003706_2021031T003016_2001  CS_OFFL_SIR_NOPN_2_2021031T0030506_2001  CS_OFFL_SIR_NOPN_2_2021031T0030506_2001  CS_OFFL_SIR_NOPN_2_2021031T0030506_2001  CS_OFFL_SIR_NOPN_2_2021031T0030506_2001  CS_OFFL_SIR_NOPN_2_2021031T0030506_200101003000000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20210311708752_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708752_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708752_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708752_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708752_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708752_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708752_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_20210311708753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_202103117108753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_202103117108753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_202103117108753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_202103117108753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_202103117108753_20210311708795_CD01  CS_OFFL_SIR_NOPN_2_202103117108753_20210311708794_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108714_CD01  CS_OFFL_SIR_NOPN_2_202103117108742_CD01  CS_OFFL_SIR_NOPN_2_202103117108742_CD01  CS_OFFL_SIR_NOPN_2_202103117108434_202103117108342_CD01  CS_OFFL_SIR_NOPN_2_202103117108434_202103117108342_CD01  CS_OFFL_SIR_NOPN_2_202103117108434_202103117108342_CD01  CS_OFFL_SIR_NOPN_2_202103117108434_202103117108342_CD01  CS_OFFL_SIR_NOPN_2_202103117108434_202103117108342_CD01  CS_OFFL_SIR_NOPN_2_202103117108434_202103117108342_CD01  CS_OFFL_SIR_NOPN_2_202103117108434_20210311710835_CD01  CS_OFFL_SIR_NOPN_2_202	CS_OFFL_SIR_NOPN_2_20210311T044228_20210311T044439_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Backscatter Causity  OCG Allimeter Range Causity PLRM. OCG Backscatter Causity PLRM. OCG Bac	OCC & Backscatter Causity OCC & Altimoter Range Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality PLRM. The OCCO Range and Backscatter Quality Plage have been set for one or more records.  OCC & Backscatter Quality P	CS_OFFL_SIR_NOPN_2_20210311T053738_20210311T054145_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210311T06376_20210311T06398_000  CS_OFFL_SIR_NOPN_2_20210311T064756_20210311T064933_C001  CS_OFFL_SIR_NOPN_2_2021031T1064765_2021031T1064933_C001  CS_OFFL_SIR_NOPN_2_2021031T1064765_2021031T1064933_C001  CS_OFFL_SIR_NOPN_2_2021031T1064765_2021031T1064933_C001  CS_OFFL_SIR_NOPN_2_2021031T1064765_2021031T1064933_C001  CS_OFFL_SIR_NOPN_2_2021031T1064765_2021031T1064933_C001  CS_OFFL_SIR_NOPN_2_2021031T1064765_2021031T1064904_C001  Altereder Range Outling PLRM, OCCO, Altereder Range Outling PLRM, OCCO, Altereder Range on Backscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_2021031T1003756_2021031T1003106_C001  CS_OFFL_SIR_NOPN_2_2021031T1003756_2021031T1003106_C001  CS_OFFL_SIR_NOPN_2_2021031T1100315_C001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100315_2001  CS_OFFL_SIR_NOPN_2_2021031T1100300_2001  CS_OFFL_SIR_NOPN_2_2021031T1100300_2001  CS_OFFL_SIR_NOPN_2_2021031T1100300_2001  CS_OFFL_SIR_NOPN_2_2021031T1100300_2001  CS_OFFL_SIR_NOPN_2_2021031T1100300_2001031T110200_C001  CS_OFFL_SIR_NOPN_2_2021031T110400_2002031T1104000_000000000000000000000000000000	OCCG Backscatter Causity OCCG Attenuers Range Quality FLRM. OCCG Backscatter Quality FLRM. OCCG Attenuers Range Quality FLRM. OCCG Attenuers Range Quality FLRM. OCCG Backscatter Quality Flags have been set for one or now records.  OCCG Attenuers Range Quality FLRM. OCCG Backscatter Quality Flags have been set for one or now records.  Description of the Company FLRM. OCCG Backscatter Quality Flags have been set for one or now records.  Description FLRM. OCCG Backscatter Quality Flags have been set for one or now records.  Description FLRM. OCCG Backscatter Quality Flags have been set for one or now records.  Descr	CS_OFFL_SIR_NOPN_2_20210311T061749_20210311T061811_C001		, ,
OCG Backscatter Quality PLRM. CS. OFFL_SIR_NOPN_2_202103117069756_202103117069033_C001  CS. OFFL_SIR_NOPN_2_202103117069756_202103117069033_C001  CS. OFFL_SIR_NOPN_2_202103117069756_202103117069033_C001  CS. OFFL_SIR_NOPN_2_202103117069756_202103117069034_C001  CS. OFFL_SIR_NOPN_2_202103117069756_20210311706905_C001  CS. OFFL_SIR_NOPN_2_202103117069756_20210311706905_C001  CS. OFFL_SIR_NOPN_2_20210311706905_C001  CS. OFFL_SIR_NOPN_2_20210311706905_C001  CS. OFFL_SIR_NOPN_2_202103117106910_C001  CS. OFFL_SIR_NOPN_2_202103117106910_C001  CS. OFFL_SIR_NOPN_2_202103117106902_C001  CS. OFFL_SIR_NOPN_2_202103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C001  CS. OFFL_SIR_NOPN_2_202103117106902_C001  CS. OFFL_SIR_NOPN_2_202103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C00103117106902_C0010  CS. OFFL_SIR_NOPN_2_202103117106902_C00100171069002_	OCOG Backscatter Cuality  CS_OFFL_SIR_NOPN_2_20210311T080752_20210311T080503_C001  CS_OFFL_SIR_NOPN_2_20210311T080755_2012031T1085033_C001  CS_OFFL_SIR_NOPN_2_20210311T080755_2012031T108503_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T1080503_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T1080503_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T1080503_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T1080503_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T1080503_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T1080503_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T108005_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T108005_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T108005_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_2012031T109005_C001  CS_OFFL_SIR_NOPN_2_2021031T1080755_C001  CS_OFFL_SIR_NOPN_2_2021031T1108015_C001  CS_OFFL_SIR_NOPN_2_2021031T1108015_2012031T1109005_C001  CS_OFFL_SIR_NOPN_2_2021031T1108015_2012031T1109005_C001  CS_OFFL_SIR_NOPN_2_2021031T1108015_2012031T1109005_C001  CS_OFFL_SIR_NOPN_2_2021031T1108015_2012031T1109005_C001  CS_OFFL_SIR_NOPN_2_2021031T1108015_2012031T1109005_C001  CS_OFFL_SIR_NOPN_2_2021031T1110803_2012031T1109005_C001  CS_OFFL_SIR_NOPN_2_2021031T110803_2012031T1109005_C001  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CS_OFFL_SIR_NOPN_2_2021031T1109005_C0010  CCG_ARmeter Range_Coully PLRN. COCOG Range and Backscatter Quality Flags have been set for one or more records.  The COCOG Range and Backscatter Quality Flags have been set for one or more records.  The COCOG Range and Backscatter Quality Flags have been set for one or more records.  The COCOG Range and Backscatter Quality Flags have been set for one or more records.  The COCOG Range and Backscatter Quality Flags have been set for one or more records.  The COCOG R	CS_OFFL_SIR_NOPN_2_20210311T062816_20210311T062850_C001		
OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T085755_20210311T085933_CO01  OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_CO01  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T100812_20210311T102920_CO01  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102920_CO01  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T112803_20210311T112855_CO01  OCOG Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T112803_20210311T112855_CO01  OCOG Altimeter Range Cuality PLRM. OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T1144341_20210311T114715_CO01  OCOG Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags	OCOG Baldscatter Coulty  CS_OFFL_SIR_NOPN_2_20210311T085756_20210311T08393_C001  CS_OFFL_SIR_NOPN_2_20210311T083952_20210311T083956_C001  CS_OFFL_SIR_NOPN_2_20210311T083958_20210311T083956_C001  CS_OFFL_SIR_NOPN_2_20210311T083958_20210311T083956_C001  CS_OFFL_SIR_NOPN_2_20210311T083958_20210311T083956_C001  CS_OFFL_SIR_NOPN_2_20210311T083958_20210311T083956_C001  CS_OFFL_SIR_NOPN_2_20210311T1083958_20210311T083956_C001  CS_OFFL_SIR_NOPN_2_20210311T1083958_20210311T1083956_C001  CS_OFFL_SIR_NOPN_2_20210311T1083958_20210311T1083956_C001  CS_OFFL_SIR_NOPN_2_20210311T1083958_20210311T1093956_C001  CS_OFFL_SIR_NOPN_2_20210311T1083958_C001311T1093956_C001  CS_OFFL_SIR_NOPN_2_20210311T1083958_C001311T109396_C001  CS_OFFL_SIR_NOPN_2_20210311T109396_C001  CS_OFFL_SIR_NOPN_2_20210311T109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CS_OFFL_SIR_NOPN_2_2021031T11109396_C001  CS_OFFL_SIR_NOPN_2_2021031T11109396_C001  CS_OFFL_SIR_NOPN_2_2021031T11109396_C001  CS_OFFL_SIR_NOPN_2_2021031T11109396_C001  CS_OFFL_SIR_NOPN_2_2021031T11109396_C001  CS_OFFL_SIR_NOPN_2_2021031T11109396_C001  CS_OFFL_SIR_NOPN_2_2021031T11109396_C001  CS_OFFL_SIR_NOPN_2_2021031T1109396_C001  CCG_OFFL_SIR_NOPN_2_2021031T1109396_C001  CCG_OFFL_SIR_NOPN_2_2021031T1109396_C0	CS_OFFL_SIR_NOPN_2_20210311T063756_20210311T063916_C001		
CS_OFFL_SIR_NOPN_2_20210311T093752_20210311T093704_C001  CS_OFFL_SIR_NOPN_2_20210311T093758_20210311T093005_C001  CS_OFFL_SIR_NOPN_2_20210311T0093758_20210311T093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009152_20210311T10093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009152_20210311T10093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009152_20210311T10093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009152_20210311T10093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009152_20210311T10093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009152_20210311T10093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009152_20210311T10093005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009305_2005_C001  CS_OFFL_SIR_NOPN_2_20210311T1009305_C001  CS_OFFL_SIR_NOPN_2_20210311T1009305_C001  CS_OFFL_SIR_NOPN_2_20210311T144516_2005_C001  CS_OFFL_SIR_NOPN_2_20210311T144516_2005_C001  CS_OFFL_SIR_NOPN_2_20210311T144516_2005_C001  CS_OFFL_SIR_NOPN_2_20210311T144545_C001  CS_OFFL_SIR_NOPN_2_20210311T160450_20210311T160457_C001  CCC_OFFL_SIR_NOPN_2_20210311T160450_20210311T160457_C001  CCC_OFFL_SIR_NOPN_2_20210311T160450_20210311T160506_C001  CCC_OFFL_SIR_NOPN_2_20210311T160506_C001  CCC_OFFL_SIR_NOPN_2_20210311T160506_C001  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T160506_C0010  CCC_OFFL_SIR_NOPN_2_20210311T1	OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_2021031171093752_2021031171093714_C001  CS_OFFL_SIR_NOPN_2_2021031171093752_202103117109315_C001  CS_OFFL_SIR_NOPN_2_2021031171093752_202103117109315_C001  CS_OFFL_SIR_NOPN_2_2021031171093752_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109315_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117109312_202103117109315_C001  CS_OFFL_SIR_NOPN_2_202103117112803_202103117112805_C001  CCC_OFFL_SIR_NOPN_2_202103117114519_202103117114865_C001  CS_OFFL_SIR_NOPN_2_202103117114519_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114519_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114519_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114519_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114519_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114519_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114549_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114549_202103117114862_C001  CS_OFFL_SIR_NOPN_2_202103117114549_202103117114862_C001  CS_OFFL_SIR_NOPN_2_20210311716456_C001311716467_C001  CCCOS Altimeter Range Cuality PLRM. C0COS Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOS Altimeter Range Cuality PLRM. C0COS Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOS Altimeter Range Cuality PLRM. C0COS Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOS Altimeter Range Cuality PLRM. C0COS Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOS Altimeter Range Cuality PLRM. C0COS Altimeter Range Cuality PLRM. C0COS Al	CS_OFFL_SIR_NOPN_2_20210311T064014_20210311T064323_C001		
CS_OFFL_SIR_NOPN_2_20210311T093758_20210311T09305_C001  Allmeter Range and Backscatter Quality PLRM. OCOG Allmeter Range and Rankers (Quality PLRM) and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T1093758_20210311T093905_C001  CS_OFFL_SIR_NOPN_2_20210311T1093758_20210311T109315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100210_200100100100000000000000000000	CS_OFFL_SIR_NOPN_2_20210311T083758_20210311T093705_C001  Almeder Range and Backscatter Quality PLRM.  CS_OFFL_SIR_NOPN_2_20210311T093758_20210311T093905_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001  CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T102200_C001  CS_OFFL_SIR_NOPN_2_20210311T102002_20210311T10200_C001  CS_OFFL_SIR_NOPN_2_20210311T102002_20210311T102000_C001  CS_OFFL_SIR_NOPN_2_20210311T102000_20210311T102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_C001  CS_OFFL_SIR_NOPN_2_20210311T1102000_C00131T1102000_C001  CCCOA Altimeter Range Quality PLRM.  CCCOA Altimeter Range Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T100450_20210311T100450_C001  CCCOA Altimeter Range Quality PLRM.  CCCOA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOA Altimeter Range Quality PLRM.  CCCOA Altimete	CS_OFFL_SIR_NOPN_2_20210311T085755_20210311T085933_C001		
and Backscatter Quality PLRM. COGA Altimeter Range and Backscatter Quality Flags have been alter for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T100315_2001  CS_OFFL_SIR_NOPN_2_20210311T100315_2001  CS_OFFL_SIR_NOPN_2_20210311T100315_2001  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102920_C001  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102920_C001  CS_OFFL_SIR_NOPN_2_20210311T112803_20210311T102920_C001  CS_OFFL_SIR_NOPN_2_20210311T112803_20210311T112855_C001  CS_OFFL_SIR_NOPN_2_20210311T114631_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T114631_20210311T114842_C001  CS_OFFL_SIR_NOPN_2_20210311T1146442_2010311T1148442_C001  CS_OFFL_SIR_NOPN_2_20210311T1146450_20210311T1148442_C001  CS_OFFL_SIR_NOPN_2_20210311T1162459_20210311T1148442_C001  CS_OFFL_SIR_NOPN_2_20210311T1164450_20210311T1164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T16656_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166556_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T166566_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T16656_C001  CS_OFFL_SIR_NOPN_2_20210311T166510_20210311T16656_C001  CCGG Altimeter Range Quality PLRM, CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCGG Altimeter Range Quality PLRM, CCGG Range and Backscatter Quality Flags have been set for one or more records.  CCGG Altimeter	CS_OFFL_SIR_NOPN_2_20210311T100812_20210311T109305_C001  CS_OFFL_SIR_NOPN_2_20210311T100812_20210311T101146_C001  CS_OFFL_SIR_NOPN_2_20210311T100812_20210311T101146_C001  CS_OFFL_SIR_NOPN_2_20210311T100812_20210311T101146_C001  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T101146_C001  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T101146_C001  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102802_C001  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102802_C001  CS_OFFL_SIR_NOPN_2_20210311T114655_C001  CS_OFFL_SIR_NOPN_2_20210311T146512_20210311T14842_C001  CS_OFFL_SIR_NOPN_2_20210311T14431_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T14451_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T162659_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T162659_20210311T162672_C001  CS_OFFL_SIR_NOPN_2_20210311T162659_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162659_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162659_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162659_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CS_OFFL_SIR_NOPN_2_20210311T162650_20210311T162650_C001  CCS_OFFL_SIR_NOPN_2_20210311T16450_20210311T160500_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T160500_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T160500_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T160500_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T160500_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T160500_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T160500_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T1700800_C001  CCS_OFFL_SIR_NOPN_2_20210311T16650_20210311T1700800_C001  CCS_OFFL_SI	CS_OFFL_SIR_NOPN_2_20210311T093552_20210311T093714_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Allimeter Range Quality PLRM, OCG Backscatter Quality PLRM, OCG Altimeter Range Backscatter Quality PLRM, OCG Back	OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102802_C001  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Qu	CS_OFFL_SIR_NOPN_2_20210311T093758_20210311T093905_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality PLRM. CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102802_C001  CS_OFFL_SIR_NOPN_2_20210311T112603_20210311T112655_C001  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T114341_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T16450_20210311T16455_C001  CCG_G Altimeter Range Quality PLRM. CCG_G Backscatter Quality  CCG_G Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Altimeter Range Quality PLRM. CCG_G Backscatter Quality  CCG_G Altimeter Range Quality PLRM. CCG_G Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Altimeter Range Quality PLRM. CCG_G Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Range and Backscatter Quality Flags have been set for one or more records.  CCG_G Range and Backscatter Quality Flags have been set for one or more records.	OCG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102802_C001  CS_OFFL_SIR_NOPN_2_20210311T112803_20210311T112805_C001  CS_OFFL_SIR_NOPN_2_20210311T112803_20210311T112805_C001  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T164657_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T16566_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T16566_C001  CS_OFFL_SIR_NOPN_2_20210311T166741_20210311T176085_C001  CS_OFFL_SIR_NOPN_2_20210311T166741_20210311T176085_C001  CS_OFFL_SIR_NOPN_2_20210311T166741_20210311T176085_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T176085_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T176085_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T1777686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T1777686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177768_C001  CCS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CCS_OFFL_SIR_NOPN_2_20210311T176550_20210311T177686_C001  CCS_OFFL_SIR_NOPN_2_20210311T1776550_20210311T177768_C001  CCS_OFFL_SIR_NOPN_2_20	CS_OFFL_SIR_NOPN_2_20210311T100210_20210311T100315_C001		
CS_OFFL_SIR_NOPN_2_20210311T112603_20210311T112655_C001  CS_OFFL_SIR_NOPN_2_20210311T112603_20210311T112655_C001  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T114341_20210311T1144842_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T1602612_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T160556_C001  CCGG Altimeter Range Quality PLRM, CCGG Altimeter Range 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CCGG Altimeter Range Quality PLRM, CCGG 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.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T170028_C001  CCGG Altimeter Range Quality PLRM, CCGG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CCGG Altimeter Range Quality PLRM, CCGG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T102602_20210311T110265_C001  CS_OFFL_SIR_NOPN_2_20210311T112603_20210311T112655_C001  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T1144341_20210311T114842_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T16450_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170285_C001  CS_OFFL_SIR_NOPN_2_20210311T165750_20210311T170285_C001  CS_OFFL_SIR_NOPN_2_20210311T165750_20210311T170285_C001  CS_OFFL_SIR_NOPN_2_20210311T165750_20210311T170285_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170285_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170285_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170285_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170285_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170285_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170285_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170285_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T	CS_OFFL_SIR_NOPN_2_20210311T100812_20210311T101146_C001		
CS_OFFL_SIR_NOPN_2_20210311T112603_20210311T112655_C001  and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T164451_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T1645741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165761_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165761_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165761_20210311T170028_C001  CCS_OFFL_SIR_NOPN_2_20210311T165761_20210311T170028_C001  CCS_OFFL_SIR_NOPN_2_20210311T165761_20210311T170028_C001  CCCCG_Altimeter Range Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM. OCOG Back	CS_OFFL_SIR_NOPN_2_20210311T112603_20210311T112655_C001  and Backscatter Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001  CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162812_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162812_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165066_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T17028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T17028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170805_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  CCS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  CCCCG_SAltimeter Range Quality PLRM, CCCG_Backscatter Quality PLRM, CCCG_	CS_OFFL_SIR_NOPN_2_20210311T102802_20210311T102920_C001	OCOG Backscatter Quality	, ,
OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001  OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM	OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170005_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170005_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170005_C001  CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T112603_20210311T112655_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM	CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Plags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T114519_20210311T114715_C001		
CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170028_C001	CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170055_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170055_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T144341_20210311T144842_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210311T16450_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001  CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001	CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T162459_20210311T162612_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  OCOG Backscatter Quality DLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T164450_20210311T164457_C001		
OCOG Backscatter Quality  more records.  OCOG Backscatter Quality PLRM,  The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_202103111105741_202103111170028_C001  OCOG Backscatter Quality  more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210311T164510_20210311T165056_C001		
	OCOG Backscatter Quality more records.  OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_20210311T165741_20210311T170028_C001		
		CS_OFFL_SIR_NOPN_2_20210311T170550_20210311T170805_C001		, ,
		CS_OFFL_SIR_NOPN_2_20210311T171610_20210311T171758_C001		

CS_OFFL_SIR_NOPN_2_20210311T174314_20210311T174652_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_20210311T180205_20210311T180759_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_20210311T184459_20210311T184646_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_20210311T192511_20210311T192640_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_20210311T193535_20210311T193559_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_20210311T194220_20210311T194623_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_20210311T202425_20210311T202607_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_20210311T203343_20210311T203355_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_20210311T212420_20210311T212823_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_20210311T223257_20210311T223409_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_20210311T230312_20210311T230510_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_20210311T234347_20210311T234709_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_20210311T235223_20210311T235347_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_20210311T012629_20210311T013420_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_20210311T013514_20210311T013703_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_20210311T030529_20210311T031105_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_20210311T033200_20210311T033404_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_20210311T040100_20210311T040417_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_20210311T043439_20210311T043539_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_20210311T044439_20210311T045132_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_20210311T050514_20210311T051329_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_20210311T062303_20210311T062816_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_20210311T062850_20210311T063018_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_20210311T080844_20210311T081135_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_20210311T094700_20210311T095203_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_20210311T095852_20210311T100031_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_20210311T113044_20210311T113336_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_20210311T113552_20210311T113806_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_20210311T134123_20210311T134427_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_20210311T141355_20210311T141420_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_20210311T142911_20210311T143109_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_20210311T143112_20210311T143350_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_20210311T143625_20210311T143750_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_20210311T150631_20210311T150809_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_20210311T152219_20210311T152717_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_20210311T162612_20210311T163046_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_20210311T173341_20210311T174057_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_20210311T184415_20210311T184458_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_20210311T193309_20210311T193534_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_20210311T193559_20210311T193657_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_20210311T193726_20210311T194220_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_20210311T211117_20210311T211317_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_20210311T211419_20210311T212419_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_20210311T220233_20210311T220436_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_20210311T224435_20210311T224457_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_20210311T224800_20210311T225112_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_20210311T225430_20210311T230312_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_20210311T230510_20210311T230632_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_20210311T234200_20210311T234347_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

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

Number of products with errors:

170

## 5.7 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20Hz)

Number of products with errors:

55

### 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:

128

## 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	166	166	1	165	0
SIR_NOPR1B	101	101	0	101	0
SIR_NOPN1B	100	100	2	98	0
SIR_NOPM_2	166	166	116	46	4
SIR_NOPR_2	101	101	33	63	5
SIR_NOPN_2	100	100	40	56	4

### 7.1 QCC Errors

### Number of QCC reports with errors:

20

Total number of occurrences of each error

Product Type	EOVSNCDF	MPHSVSNCDF	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-
SIR_NOPM_2	4	4	0	0	0	0					
SIR_NOPN_2	4	4	0	0	0	0					
SIR NOPR 2	1	1	4	4	4	4					

<b>Test Description Key:</b>	est Description Key:							
Abbreviation	Test name	Details						
EOVSNCDF	EnumOrbitVectorSourceNetCDF	Orbit vector source should match one of the allowed enumeration values - NetCDF						
MPHSVSNCDF	MPH_State_Vector_Source_NetCDF	State_Vector_Source mismatch						
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF						
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7						
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF						
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7						

### 7.2 QCC Warnings

### Number of QCC reports with warnings

1583

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_NOPM1B	165	0	0	0	0	0	0
SIR_NOPM_2	0	0	33	40	1	39	0
SIR_NOPN1B	97	0	0	0	0	0	0
SIR_NOPN_2	0	0	9	30	5	19	23
SIR_NOPR1B	97	0	0	0	0	0	0
SIR_NOPR_2	0	4	29	43	0	28	27

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	34	0	30	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	14	0	0	0	14	0	28
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	15	1	0	43	0	48	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	27	0	0	2	23	0	2
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	26	13	36	51	21
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	0	42	0	6	52	31	11

	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
ſ	SIR_NOPM1B	0	0	0	0	0	0	
	SIR_NOPM_2	29	0	0	0	0	0	
	SIR_NOPN1B	0	0	0	0	44	1	
	SIR_NOPN_2	26	24	13	0	0	0	
	SIR_NOPR1B	0	0	0	0	101	8	
	SIR NOPR 2	31	36	3	8	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						
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)						
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees						
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees						
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only						
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes 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						
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						
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						

RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

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