

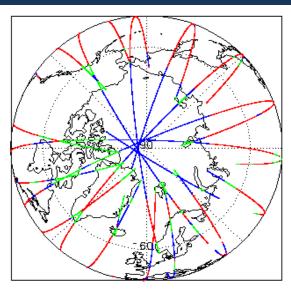
1. Overview

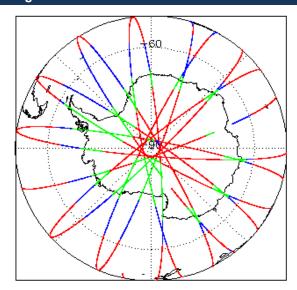
Report Production:	03-Jul-2020 CryoSat Ocean Processor	
Processor Used:		
Data Used:	Near Real Time Ocean Products (NOI L1B & L2 Science Data	

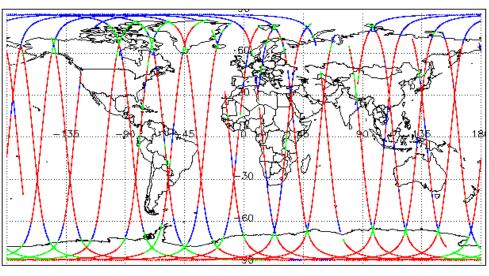
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement 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

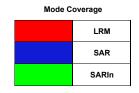
Mission / Insti	Mission / Instrument News		
01-Jul-2020	None		
02-Jul-2020	None		
03-Jul-2020	Nothing planned		

2. Global Coverage









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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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

14

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:

Test Failed Product Description CS_OFFL_SIR_NOPM1B_20200702T042446_20200702T043550_C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR NOPN1B 20200702T003849 20200702T003917 C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPN1B_20200702T053854_20200702T054123_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPN1B_20200702T071445_20200702T071559_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPN1B_20200702T120149_20200702T120309_C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR NOPN1B 20200702T134418 20200702T134612 C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPN1B_20200702T152624_20200702T152717_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPN1B_20200702T154103_20200702T154137_C001 Loss of Echo The tracking echo is missing for one or more records CS OFFL SIR NOPN1B 20200702T170032 20200702T170328 C001 Loss of Echo The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

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.

Loss of Echo

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.

CS_OFFL_SIR_NOPN1B_20200702T170419_20200702T170613_C001

CS_OFFL_SIR_NOPR1B_20200702T061629_20200702T061816_C001

CS_OFFL_SIR_NOPR1B_20200702T112651_20200702T112908_C001

CS OFFL SIR NOPR1B 20200702T125231 20200702T125451 C001

CS_OFFL_SIR_NOPR1B_20200702T165638_20200702T165730_C001

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric 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.

Test Failed

- > 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:

Product

Descr

CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or Imore records
CS_OFFL_SIR_NOPN_2_20200702T012014_20200702T012256_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_20200702T012615_20200702T012950_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_20200702T030053_20200702T030327_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_20200702T031000_20200702T031145_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_20200702T035602_20200702T035723_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_20200702T043625_20200702T044211_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_20200702T053031_20200702T053127_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_20200702T053533_20200702T053743_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_20200702T053854_20200702T054123_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20200702T061816_20200702T061956_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_20200702T062840_20200702T063048_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_20200702T071445_20200702T071559_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_20200702T071603_20200702T071932_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_20200702T084657_20200702T084729_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_20200702T093726_20200702T094120_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_20200702T111713_20200702T112026_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20200702T120149_20200702T120309_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_20200702T125451_20200702T125905_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_20200702T130442_20200702T130606_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_20200702T143235_20200702T143405_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_20200702T144227_20200702T144412_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_20200702T152624_20200702T152717_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_20200702T162025_20200702T162244_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_20200702T170419_20200702T170613_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200702T170616_20200702T170631_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_20200702T175036_20200702T175236_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_20200702T175922_20200702T180358_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_20200702T184101_20200702T184455_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_20200702T211939_20200702T212114_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_20200702T225636_20200702T225954_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_20200702T084944_20200702T085513_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_20200702T101801_20200702T101945_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_20200702T102854_20200702T103646_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_20200702T120705_20200702T121732_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_20200702T134822_20200702T135615_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_20200702T152717_20200702T153258_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_20200702T165638_20200702T165730_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_20200702T170632_20200702T171329_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_20200702T184455_20200702T185012_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_20200702T221740_20200702T221938_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height 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:

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5.6 L2 Measurement Quality Flag Check

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:

90

and Backscaller Quality. COCG Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have All Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags have Both Color Allimeter Range and Backscaller Quality Flags	roduct	Test Failed	Description
and Backscatter Quality. COCG Allimeter Range and Backscatter Quality Range have been corn cross records. CS_OFFL_SIR_NOPM_2_20200702T003917_20200702T004348_0001 CS_OFFL_SIR_NOPM_2_20200702T003955_20200702T010419_0001 CS_OFFL_SIR_NOPM_2_20200702T010907_20200702T010419_0001 CS_OFFL_SIR_NOPM_2_20200702T010907_20200702T010419_0001 CS_OFFL_SIR_NOPM_2_20200702T010907_20200702T010419_0001 CS_OFFL_SIR_NOPM_2_20200702T010907_20200702T010419_0001 CS_OFFL_SIR_NOPM_2_20200702T010907_20200702T012816_0001 CS_OFFL_SIR_NOPM_2_20200702T010907_20200702T012816_0001 CS_OFFL_SIR_NOPM_2_20200702T010907_20200702T012816_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_20200702T012816_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_20200702T012816_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_2000702T012816_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_2000702T012816_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_2000702T010909_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_2000702T010909_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_2000702T010909_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_2000702T0100009_0001 CS_OFFL_SIR_NOPM_2_20200702T010909_2000702T0100009_0001 CS_OFFL_SIR_NOPM_2_20200702T0100009_0001 CS_OFFL_SIR_NOPM_2_20200702T0100009_20001 CS_OFFL_SIR_NOPM_2_20200702T0100009_20001 CS_OFFL_SIR_NOPM_2_20200702T0100009_20001 CS_OFFL_SIR_NOPM_2_20200702T0100009_20001 CS_OFFL_SIR_NOPM_2_20200702T0100009_20001 CS_OFFL_SIR_NOPM_2_20200702T0100009_2000702T000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T0000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T0000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T0000009_0001 CS_OFFL_SIR_NOPM_2_20200702T0000009_2000702T0000009_0001000000000000000000000000000	S_OFFL_SIR_NOPM_2_20200701T235408_20200702T001527_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscater Cuality, COCG CS_OFFL_SIR_NOPM_2_20200702T009995_20200702T01949_C001 CS_OFFL_SIR_NOPM_2_20200702T010807_20200702T01183_C001 CS_OFFL_SIR_NOPM_2_20200702T010807_20200702T01183_C001 CS_OFFL_SIR_NOPM_2_20200702T012286_20200702T01289_C001 CS_OFFL_SIR_NOPM_2_20200702T013292_20200702T013890_C001 CS_OFFL_SIR_NOPM_2_20200702T013292_20200702T012890_C001 CS_OFFL_SIR_NOPM_2_20200702T02237_20200702T022397_C001 CS_OFFL_SIR_NOPM_2_20200702T02237_20200702T022397_C001 CS_OFFL_SIR_NOPM_2_20200702T0223901_20200702T022397_C001 CS_OFFL_SIR_NOPM_2_20200702T0223901_20200702T022397_C001 CS_OFFL_SIR_NOPM_2_20200702T0223901_20200702T022397_C001 CS_OFFL_SIR_NOPM_2_20200702T0223901_20200702T022397_C001 CS_OFFL_SIR_NOPM_2_20200702T0223901_20200702T022395_C001 CS_OFFL_SIR_NOPM_2_20200702T0223901_20200702T022395_C001 CS_OFFL_SIR_NOPM_2_20200702T023001_20200702T032895_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T032895_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033099_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033009_C001 CS_OFFL_SIR_NOPM_2_20200702T033004_20200702T033009_C001 CS_OFFL_SIR_NOPM_2_20	S_OFFL_SIR_NOPM_2_20200702T001813_20200702T002828_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, COCO Altimeter Range and Backscatter Quality Flags have Machiner Range Range SPHA_SWH and Backscatter Quality Flags have Machiner Range Range SPHA_SWH and Backscatter Quality Flags have Machiner Range Range SPHA_SWH and Backscatter Quality Flags have Machiner Range Range SPHA_SWH and Backscatter Quality And Decomposition Quality Cooper Alterneter Range SPHA_SWH and Backscatter Quality And Decomposition Quality Cooper Range Range SPHA_SWH and Backscatter Quality And Decomposition Quality Cooper Alterneter Range Range SPHA_SWH and Backscatter Quality And Decomposition Quality Cooper Alterneter Range Range SPHA_SWH and Backscatter Quality Range have Machiner Range and Backscatter Quality Range have Machiner Range and Backscatter Quality Range have Machiner Range Range SPHA_SWH and Backscatter Quality Range have Machiner Range and Backscatter Quality Range have Machiner Range and Backscatter Quality Range have Machiner Range Ra	S_OFFL_SIR_NOPM_2_20200702T003917_20200702T004348_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and flackscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have before one or records. CS_OFFL_SIR_NOPM_2_20200702T012256_20200702T012615_CO01 CS_OFFL_SIR_NOPM_2_20200702T013329_20200702T013809_CO01 CS_OFFL_SIR_NOPM_2_20200702T013329_20200702T013809_CO01 CS_OFFL_SIR_NOPM_2_20200702T013329_20200702T013809_CO01 CS_OFFL_SIR_NOPM_2_20200702T013819_20200702T020039_CO01 CS_OFFL_SIR_NOPM_2_20200702T013819_20200702T020039_CO01 CS_OFFL_SIR_NOPM_2_20200702T013819_20200702T020039_CO01 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020039_CO01 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020039_CO01 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020395_CO01 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020395_CO01 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020395_CO01 CS_OFFL_SIR_NOPM_2_20200702T020227_20200702T020395_CO01 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T020355_CO01 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T030595_CO01 CS_OFFL_SIR_NOPM_2_20200702T030527_20200702T030595_CO01 CS_OFFL_SIR_NOPM_2_20200702T030527_20200702T030595_CO01 CS_OFFL_SIR_NOPM_2_20200702T030527_20200702T030595_CO01 CS_OFFL_SIR_NOPM_2_20200702T030527_20200702T030595_CO01 CS_OFFL_SIR_NOPM_2_20200702T030527_20200702T030595_CO01 CCG_Altimeter Range_Quality, CCCG_Altimeter Range and Backscatter Quality Flags have be for one or more records. CCC_OFFL_SIR_NOPM_2_20200702T030527_20200702T032535_CO01 CCCC_Altimeter Range_Quality, CCCG_Altimeter Range_Albeacked Cuality Flags have be for one or more records. CCC_OF	S_OFFL_SIR_NOPM_2_20200702T005935_20200702T010419_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS_OFFL_SIR_NOPM_2_20200702T013329_20200702T013809_C001 CS_OFFL_SIR_NOPM_2_20200702T013329_20200702T02039_C001 CS_OFFL_SIR_NOPM_2_20200702T013819_20200702T02039_C001 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_2020702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020217_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020237_C001 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T020353_C001 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T03059_C001 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T03059_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T03059_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T0302846_20200702T030945_C001 CS_OFFL_SIR_NOPM_2_20200702T0302846_2020	S_OFFL_SIR_NOPM_2_20200702T010607_20200702T011633_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscater Quality, COG Altimeter Range and Backscater Quality, Flags have be for one or more records. CS_OFFL_SIR_NOPM_2_20200702T03329_20200702T020395_C001 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020112_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020237_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020237_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020237_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020237_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020237_20200702T020950_C001 CS_OFFL_SIR_NOPM_2_20200702T020301_20200702T020353_C001 CS_OFFL_SIR_NOPM_2_20200702T03001_20200702T025353_C001 CS_OFFL_SIR_NOPM_2_20200702T0300327_20200702T030521_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030551_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030551_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030951_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T03004_20200702T030005_C001 CS_OFFL_SIR_NOPM_2_20200702T030005_C0010000000000000000000000000000000	S_OFFL_SIR_NOPM_2_20200702T012256_20200702T012615_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Qu	S_OFFL_SIR_NOPM_2_20200702T013329_20200702T013809_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been compared to the COG Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality Flags have been compared to the Cog Altimeter Range and Backscatter Quality	S_OFFL_SIR_NOPM_2_20200702T013819_20200702T020039_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records. CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T030521_C001 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T030521_C001 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T030521_C001 CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T030551_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001 CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001 CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032846_20200702T032945_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_2020	S_OFFL_SIR_NOPM_2_20200702T020112_20200702T020950_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records. CS_OFFL_SIR_NOPM_2_20200702T030327_20200702T030521_C001 CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001 CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032945_C001 CS_OFFL_SIR_NOPM_2_20200702T032846_20200702T032945_C001 CS_OFFL_SIR_NOPM_2_20200702T032857_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T0302257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T030257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T030257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T030257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T030257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T030257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T030257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C00	S_OFFL_SIR_NOPM_2_20200702T022237_20200702T022937_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality Gro one or more records. CS_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001 CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001 CS_OFFL_SIR_NOPM_2_20200702T032846_20200702T032945_C001 CS_OFFL_SIR_NOPM_2_20200702T032846_20200702T032945_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T030257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200	S_OFFL_SIR_NOPM_2_20200702T023001_20200702T025353_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 Docan Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality CS_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001 Docan Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been provided by the p	S_OFFL_SIR_NOPM_2_20200702T030327_20200702T030521_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH And Backscatter Quality, OCOG	S_OFFL_SIR_NOPM_2_20200702T030804_20200702T030959_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS_OFFL_SIR_NOPM_2_20200702T032846_20200702T032945_C001 CS_OFFL_SIR_NOPM_2_20200702T032846_20200702T032945_C001 CS_OFFL_SIR_NOPM_2_20200702T032846_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T0302257_20200702T034019_C001 CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 Backscatter Quality for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records. Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records.	S_OFFL_SIR_NOPM_2_20200702T031250_20200702T031751_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T032846_20200702T032945_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have a set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have a set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have a set for one or more records. Ocean Altimeter Range and Backscatter Quality Flags have a set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have a set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have a set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have a set for one or more records.	S_OFFL_SIR_NOPM_2_20200702T032734_20200702T032831_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.	S_OFFL_SIR_NOPM_2_20200702T032846_20200702T032945_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have	S_OFFL_SIR_NOPM_2_20200702T033257_20200702T034019_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Altimeter Range and Backscatter Quality set for one or more records.	S_OFFL_SIR_NOPM_2_20200702T040302_20200702T041633_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	S_OFFL_SIR_NOPM_2_20200702T042446_20200702T043550_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T044506_20200702T044929_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records.	S_OFFL_SIR_NOPM_2_20200702T044506_20200702T044929_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	S_OFFL_SIR_NOPM_2_20200702T045216_20200702T045819_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	S_OFFL_SIR_NOPM_2_20200702T045838_20200702T050613_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	S_OFFL_SIR_NOPM_2_20200702T050752_20200702T050918_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	S_OFFL_SIR_NOPM_2_20200702T050920_20200702T052257_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20200702T052300_20200702T052306_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_20200702T054918_20200702T055154_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_20200702T060036_20200702T061629_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_20200702T061957_20200702T062840_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_20200702T063134_20200702T065325_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_20200702T072155_20200702T075540_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_20200702T080204_20200702T080633_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_20200702T081102_20200702T083612_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_20200702T090753_20200702T093412_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_20200702T094120_20200702T094711_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_20200702T094935_20200702T100944_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_20200702T101243_20200702T101418_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_20200702T102617_20200702T102726_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_20200702T103941_20200702T111321_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_20200702T112026_20200702T112542_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_20200702T113223_20200702T113502_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_20200702T120310_20200702T120704_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_20200702T121732_20200702T122831_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_20200702T123117_20200702T125231_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_20200702T130034_20200702T130442_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_20200702T130902_20200702T131949_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_20200702T132137_20200702T132855_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_20200702T132937_20200702T133412_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_20200702T134321_20200702T134346_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_20200702T135615_20200702T143126_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_20200702T143931_20200702T143938_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_20200702T143945_20200702T144227_C001 OCOG Altime	neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T145027_20200702T150258_C001 and Backsca	neter Range, SSHA, SWH and Backscatter Quality Flags atter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been ange and Backscatter Quality Flags or more records.
CS_OFFL_SIR_NOPM_2_20200702T150301_20200702T152034_C001 and Backsca	neter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T153441_20200702T154039_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T154137_20200702T155348_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T155552_20200702T161043_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T161322_20200702T161822_C001 OCOG Altime Backscatter (neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T161902_20200702T162025_C001 OCOG Altime Backscatter (neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T162741_20200702T163804_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T164423_20200702T165638_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T173129_20200702T173257_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T173550_20200702T174946_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T175236_20200702T175733_C001 OCOG Altime	neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T175815_20200702T175922_C001 OCOG Altime	neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T180529_20200702T182654_C001 and Backsca	neter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T182657_20200702T183757_C001 and Backsca	neter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T184010_20200702T184101_C001	neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T203429_20200702T204149_C001	neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T204152_20200702T210838_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Itimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T211102_20200702T211604_C001	neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T211611_20200702T211939_C001	neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T212334_20200702T215726_C001 and Backsca	neter Range, SSHA, SWH atter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T221042_20200702T221623_C001 and Backsca	neter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T224250_20200702T224731_C001 and Backsca	neter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been ange and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T225101_20200702T225635_C001 OCOG Altimor Backscatter (neter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200702T230327_20200702T233646_C001 and Backsca	neter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH 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_20200702T233703_20200702T233820_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_20200702T234927_20200702T235045_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_20200702T043625_20200702T044211_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_20200702T072033_20200702T072155_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_20200702T094711_20200702T094837_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_20200702T154103_20200702T154137_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_20200702T234750_20200702T234815_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_20200702T235632_20200702T235642_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_20200702T002828_20200702T002944_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_20200702T054758_20200702T054918_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_20200702T063048_20200702T063134_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_20200702T080854_20200702T081102_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_20200702T113815_20200702T113857_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_20200702T130607_20200702T130902_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200702T030521_20200702T030702_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_20200702T031000_20200702T031145_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_20200702T035602_20200702T035723_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_20200702T042340_20200702T042446_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_20200702T043625_20200702T044211_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_20200702T053533_20200702T053743_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_20200702T054323_20200702T054445_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_20200702T055804_20200702T060035_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_20200702T065925_20200702T070053_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20200702T070416_20200702T070434_C001	OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH	more records.
CS_OFFL_SIR_NOPN_2_20200702T071445_20200702T071559_C001	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_20200702T071603_20200702T071932_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_20200702T072033_20200702T072155_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_20200702T075751_20200702T075917_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_20200702T083915_20200702T084021_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_20200702T084657_20200702T084729_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_20200702T093726_20200702T094120_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_20200702T094711_20200702T094837_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_20200702T103646_20200702T103745_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_20200702T103828_20200702T103941_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_20200702T112542_20200702T112651_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_20200702T120149_20200702T120309_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_20200702T125451_20200702T125905_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_20200702T132855_20200702T132936_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_20200702T143235_20200702T143405_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_20200702T144227_20200702T144412_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_20200702T152039_20200702T152209_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_20200702T152624_20200702T152717_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_20200702T162025_20200702T162244_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_20200702T164132_20200702T164211_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_20200702T175922_20200702T180358_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_20200702T185948_20200702T190100_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_20200702T210932_20200702T211102_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_20200702T215947_20200702T220049_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_20200702T222957_20200702T223331_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

COLOR SERVICE DESCRIPTION DOUBLE DESCRIPTION DOUBLE SERVICE SERVED DOUBLE SERVICE DOUBLE SERVED DOUB	CS_OFFL_SIR_NOPN_2_20200702T224946_20200702T225101_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. OPHL SR NOPR 2 2020/TET101003 3020/TET101303 C001 Co. OPHL SR NOPR 2 2020/TET101005 3020/TET101005 C001 Co. OPHL SR NOPR 2 2020/TET1	CS_OFFL_SIR_NOPN_2_20200702T225636_20200702T225954_C001		
DE OPPE SER NORP 2 20000787719393 20000787719390 C001 CONT. SER NORP 2 20000787719390 20000787719390 C001 CONT. SER NORP 2 2000078771939	CS_OFFL_SIR_NOPN_2_20200702T234750_20200702T234815_C001		
Comparison Com	CS_OFFL_SIR_NOPR_2_20200702T011633_20200702T012013_C001	and Backscatter Quality PLRM, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_NORP_2_20201727102043_20200727100042_C001 CS_OFF_SIR_NORP_2_20201727102043_202007271001042_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271001042_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271010442_C001 CS_OFF_SIR_NORP_2_20201727101045_20200727101042_C001 CS_OFF_SIR_NORP_2_20201727101045_202007271045_202007271045_2	CS_OFFL_SIR_NOPR_2_20200702T012950_20200702T013328_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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
CS_OFFL_SIR_NOPR_2_2000702T051751_20200702T01945_C001 COOR All makener Range_SSHA_SWH_ and Backscatter Quality Flags have been self or one or more records. CS_OFFL_SIR_NOPR_2_2000702T05123_20200702T05124_C001 CS_OFFL_SIR_NOPR_2_2000702T054123_20200702T05412_C001 CS_OFFL_SIR_NOPR_2_2000702T054133_20200702T05410_C001 CS_OFFL_SIR_NOPR_2_2000702T054133_20200702T05410_C001 CS_OFFL_SIR_NOPR_2_2000702T054133_20200702T05410_C001 CS_OFFL_SIR_NOPR_2_2000702T054513_20200702T05475_C001 CS_OFFL_SIR_NOPR_2_2000702T054513_20200702T15409_C001 CS_OFFL_SIR_NOPR_2_2000702T105513_20200702T15409_C001 CS_OFFL_SIR_NOPR_2_2000702T105513_20200702T15409_C001 CS_OFFL_SIR_NOPR_2_2000702T105513_20200702T15409_C001 CS_OFFL_SIR_NOPR_2_2000702T105513_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T10551_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T11565_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T11565_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T11565_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T11565_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T11565_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T11565_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T11565_20200702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T115409_C001 CS_OFFL_SIR_NOPR_2_2000702T115409_C001 CS_OFFL_SIR_N	CS_OFFL_SIR_NOPR_2_20200702T025353_20200702T030052_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_NORR_2_20007027164129_20007027163094_20007027163094_00001 CS_OFFL_SR_NORR_2_20007027169094_20007027163094_20007027163094_00001 CS_OFFL_SR_NORR_2_20007027169094_20007027163094_20007027163094_00001 CS_OFFL_SR_NORR_2_20007027169094_20007027163094_00001 CS_OFFL_SR_NORR_2_20007027163094_20007027163094_00001 CS_OFFL_SR_NORR_2_20007027163094_00001 CS_OFF	CS_OFFL_SIR_NOPR_2_20200702T031751_20200702T031845_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOS Baskscater Quality FLRM. OCOS Allineter Range SSNA, 5WH on Corean Allineter Range and Baskscater Quality Flags and Baskscater Q	CS_OFFL_SIR_NOPR_2_20200702T041633_20200702T042040_C001	OCOG Altimeter Range Quality PLRM,	, ,
and Backscalter Quality PLRM. COCO Allmorter Range and Backscalter Quality PLRM. COCO COCO Allmorter Range Quality PLRM. COCO COCO Allmorter Range Quality PLRM. COCO Allmorter Range and Backscalter Quality Plags have been self for one or more records. CS_OFFL_SIR_NOPR_2_2020070217090453_2020070217090755_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_2020070217090755_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_2020070217090756_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_2020070217090756_CO01 CS_OFFL_SIR_NOPR_2_2020007021709045_202007021709006_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_202007021709056_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_20200702170006_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_20200702170006_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_20200702170006_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_20200702170006_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_20200702170006_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_20200702170006_CO01 CS_OFFL_SIR_NOPR_2_202007021709045_20200702170006_CO01 CS_OFFL_SIR_NOPR_2_202007021700045_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702170006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202007021710006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202007021710006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202007021710006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202007021710006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202007021710006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202007021710006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202007021710006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_20200702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_202000702171006_202007021710006_CO01 CS_OFFL_SIR_NOPR_2_2020007021710006_	CS_OFFL_SIR_NOPR_2_20200702T054123_20200702T054212_C001		
CS_OFFL_SIR_NOPR_2_20200702T100045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T100045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10045_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T10009_C001 CS_OFFL_SIR_NOPR_2_20200702T1	CS_OFFL_SIR_NOPR_2_20200702T080854_20200702T081102_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Blackscatter Quality PLRM. COCG Allmeter Range and Blackscatter Quality PLRM. Compared to the Cocg Range and Blackscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200702T102434_20200702T10509_C001 CS_OFFL_SIR_NOPR_2_20200702T102434_20200702T10509_C001 CS_OFFL_SIR_NOPR_2_20200702T102434_20200702T10509_C001 CS_OFFL_SIR_NOPR_2_20200702T102434_20200702T10509_C001 CS_OFFL_SIR_NOPR_2_20200702T102434_20200702T10509_C001 CS_OFFL_SIR_NOPR_2_20200702T10309_C001 CS_OFFL_SIR_NOPR_2_20200702T10309_C000702T10309_C001 CS_OFFL_SIR_NOPR_2_20200702T10309_C001 CS_OFFL_SIR_	CS_OFFL_SIR_NOPR_2_20200702T084531_20200702T084657_C001		
CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T10090_C001 CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T10090_C001 CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T10090_C001 CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T10090_C001 CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T102504_C001 CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T102504_C001 CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T112509_C001 CS_OFFL_SIR_NOPR_2_20200702T130902_20200702T112509_C001 CS_OFFL_SIR_NOPR_2_20200702T130902_20200702T1130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130902_20200702T1130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130907_20200702T1130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130907_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130902_C001 CS_OFFL	CS_OFFL_SIR_NOPR_2_20200702T090628_20200702T090753_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Allimeter Range Quality PLRM. OCOG Allimeter Range Quality PLRM. OCOG Allimeter 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. OCOG Allimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Backscatter Quality Flags have been set for one or more records. OCOG Allimeter Range Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Allimeter Range Rough PLRM. OCOG Backscatter Quality PLRM. OCOG Allimeter Range SSHA, SWH and Backscatter Quality Plags have been set for one or more records. The OCOG Allimeter Range SSHA, SWH and Backscatter Quality Plags have been set for one or more records. The OCOG Allimeter Range SSHA, SWH and Backscatter Quality PLRM. OCOG	CS_OFFL_SIR_NOPR_2_20200702T093412_20200702T093726_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Backscatter Quality PLRM. OCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200702T113692_20200702T113812_C001 CS_OFFL_SIR_NOPR_2_20200702T113692_20200702T113857_C001 CS_OFFL_SIR_NOPR_2_20200702T113815_20200702T113857_C001 CS_OFFL_SIR_NOPR_2_20200702T113815_20200702T113857_C001 CS_OFFL_SIR_NOPR_2_20200702T113815_20200702T113857_C001 CS_OFFL_SIR_NOPR_2_20200702T13815_20200702T113857_C001 CS_OFFL_SIR_NOPR_2_20200702T13815_20200702T121732_C001 CS_OFFL_SIR_NOPR_2_20200702T13815_20200702T121732_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C00702T139902_C001 CS_OFFL_SIR_NOPR_2_20200702T139902_C001 CS_OFFL_SI	CS_OFFL_SIR_NOPR_2_20200702T100945_20200702T101009_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Altimet	CS_OFFL_SIR_NOPR_2_20200702T102434_20200702T102504_C001		
CS_OFFL_SIR_NOPR_2_20200702T113815_20200702T113815_C001 CS_OFFL_SIR_NOPR_2_20200702T113815_20200702T113857_C001 CS_OFFL_SIR_NOPR_2_20200702T120705_20200702T121732_C001 CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T1440945_C001 CS_OFFL_SIR_NOPR_2_20200702T144112_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T	CS_OFFL_SIR_NOPR_2_20200702T112651_20200702T112908_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_NOPR_2_20200702T120705_20200702T121732_C001 CS_OFFL_SIR_NOPR_2_20200702T120705_20200702T121732_C001 CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T131949_20200702T132137_C001 CS_OFFL_SIR_NOPR_2_20200702T131949_20200702T132137_C001 CS_OFFL_SIR_NOPR_2_20200702T131949_20200702T132137_C001 CS_OFFL_SIR_NOPR_2_20200702T134822_20200702T135615_C001 CS_OFFL_SIR_NOPR_2_20200702T134822_20200702T143945_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_	CS_OFFL_SIR_NOPR_2_20200702T113502_20200702T113812_C001		
CS_OFFL_SIR_NOPR_2_20200702T120705_20200702T121732_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_C001 CS_OFFL_SIR_NOPR_2_20200702T131949_20200702T132137_C001 CS_OFFL_SIR_NOPR_2_20200702T131949_20200702T132137_C001 CS_OFFL_SIR_NOPR_2_20200702T131949_20200702T132137_C001 CS_OFFL_SIR_NOPR_2_20200702T134822_20200702T135615_C001 CS_OFFL_SIR_NOPR_2_20200702T143938_20200702T143945_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T1444112_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T145046_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702	CS_OFFL_SIR_NOPR_2_20200702T113815_20200702T113857_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Qualit	CS_OFFL_SIR_NOPR_2_20200702T120705_20200702T121732_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_NOPR_2_20200702T131949_20200702T13213T_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200702T134822_20200702T135615_C001 CS_OFFL_SIR_NOPR_2_20200702T143938_20200702T143945_C001 CS_OFFL_SIR_NOPR_2_20200702T143938_20200702T143945_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_20200702T162745_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_C001 CS_OFFL_SIR_NOPR_2_20200702T162445_C001 CS_OFFL_SIR_NOPR_2_20200702T1624455_C001 CS_OFFL_SIR_NOPR_2_20200702T1624455_C001 CS_OFFL_SIR_NOPR_2_20200702T1624455_C001 CCCG_Altimeter Range Quality PLRM. CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCC_Altimeter Range Quality PLRM. CCCCC_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCC_Altimeter Range Quality PLRM. CCCCC_Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200702T130607_20200702T130902_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_NOPR_2_20200702T143938_20200702T143945_C001 OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200702T131949_20200702T132137_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_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 CS_OFFL_SIR_NOPR_2_20200702T162741_C001	CS_OFFL_SIR_NOPR_2_20200702T134822_20200702T135615_C001		
CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 and 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 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200702T143938_20200702T143945_C001		
CS_OFFL_SIR_NOPR_2_20200702T162245_20200702T162741_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and COGA Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200702T164211_20200702T164415_C001 CS_OFFL_SIR_NOPR_2_20200702T164211_20200702T164415_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPR_2_20200702T144412_20200702T145026_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_NOPR_2_20200702T162245_20200702T162741_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_NOPR_2_20200702T164211_20200702T164415_C001		

CS_OFFL_SIR_NOPR_2_20200702T165917_20200702T170032_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_20200702T170632_20200702T171329_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_20200702T172704_20200702T173128_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_20200702T180358_20200702T180529_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_20200702T183758_20200702T184010_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_20200702T185045_20200702T185156_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_20200702T203124_20200702T203311_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_20200702T210838_20200702T210931_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_20200702T212114_20200702T212334_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_20200702T221740_20200702T221938_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_20200702T224731_20200702T224945_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_20200702T225954_20200702T230327_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_20200702T235206_20200702T235518_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG 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:

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 61

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: 138

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	143	143	3	140	0
SIR_NOPR1B	107	107	0	107	0
SIR_NOPN1B	100	100	1	99	0
SIR_NOPM_2	143	143	88	53	2
SIR_NOPR_2	107	107	36	70	1
SIR NOPN 2	100	100	42	57	1

7.1 QCC Errors

Number of QCC reports with errors:

9

	_	
Total number	of occurrences	of each error

						0. 0000					
Product Type	EOVSNCDF	MPHSVSNCDF	-	-	-	-	-	-	-	-	
SIR_NOPM_2	2	2									
SIR_NOPN_2	1	1									
SIR_NOPR_2	1	1									

Test 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				

7.2 QCC Warnings

Number of QCC reports with warnings

1652

lotal number of occurrences of each warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_NOPM1B	140	0	0	0	0	0	0
SIR_NOPM_2	0	43	39	0	37	0	30
SIR_NOPN1B	98	0	0	0	0	0	0
SIR_NOPN_2	0	8	27	3	21	24	18
SIR_NOPR1B	107	0	0	0	0	0	0
SIR NOPR 2	0	33	47	0	33	24	17

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	1	33	0	0	0	0	27
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	0	20	0	26	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	0	0	49	0	52	0	0

Product Type	e RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1	В 0	0	0	0	0	0	0
SIR_NOPM_:	2 0	0	5	30	0	7	38
SIR_NOPN1	В 0	0	0	0	0	0	0
SIR_NOPN_2	2 0	23	15	40	47	26	23
SIR_NOPR1	В 0	0	0	0	0	0	0
SIR NOPR	2 48	0	1	62	43	9	38

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_NOPM1B	0	0	1	0	0	0	
SIR_NOPM_2	0	3	1	0	0	0	
SIR_NOPN1B	0	0	0	0	41	0	
SIR_NOPN_2	19	5	0	4	0	0	
SIR_NOPR1B	0	0	0	0	107	6	
SIR_NOPR_2	50	1	0	2	0	0	

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
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
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
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