

# **QA4EO Daily Report for NOP data:**

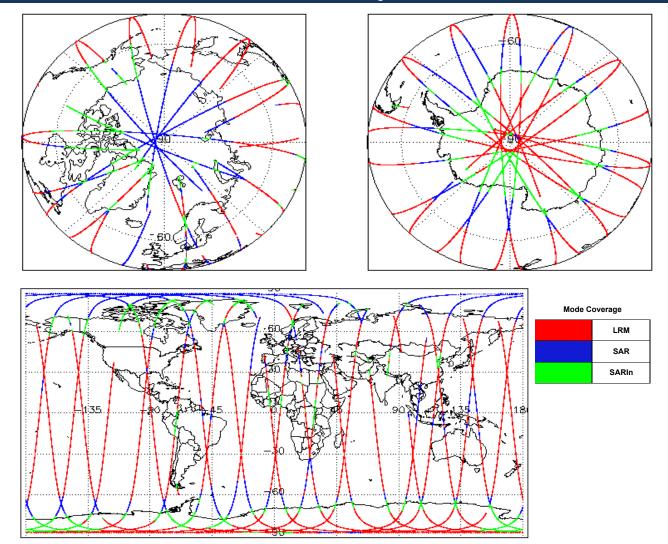
21/06/2021

Demant Due du stiene	00 km 0001	Check	L1 & L2
Report Production:	22-Jun-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	Product Format Check	Nominal
Data Used:		Product Header Analysis	See Sections 4.2 and 5.2
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2

1. Overview

# Mission / Instrument News 20-Jun-2021 None 21-Jun-2021 None 20 Jun-2021None22-Jun-2021Nothing planned

# 2. Global Coverage



# 3. Instrument Configuration

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

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

# 4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

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 11b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the 11b_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: 0
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:

### 4.5 L1B Measurement Confidence Data Check

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

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

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210621T113408_20210621T113556_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210621T072426_20210621T080030_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210621T113641_20210621T114909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210621T194737_20210621T202303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210621T212609_20210621T214045_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210621T063002_20210621T063055_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210621T063841_20210621T064003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210621T112650_20210621T112756_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210621T225312_20210621T225342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210621T225558_20210621T225629_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210621T052945_20210621T053200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210621T090238_20210621T090425_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210621T112002_20210621T112228_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210621T221420_20210621T222022_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

#### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 12

Product	Test Failed
CS_OFFL_SIR_NOPN_2_20210621T031230_20210621T031251_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPR_2_20210621T031251_20210621T031525_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T031525_20210621T032051_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPN_2_20210621T032051_20210621T032157_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032157_20210621T032318_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032321_20210621T032447_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032450_20210621T032511_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032515_20210621T032554_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032556_20210621T032559_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032602_20210621T032607_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032609_20210621T032710_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)
CS_OFFL_SIR_NOPM_2_20210621T032712_20210621T035049_C001.DBL	FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)

### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Wind Model File Usage: This file is currently not included in all L2 products.

### 5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.

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

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

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

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210621T045259_20210621T045600_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_20210621T004139_20210621T004521_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_20210621T012308_20210621T012700_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_20210621T013209_20210621T013243_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_20210621T053200_20210621T053320_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_20210621T053849_20210621T054205_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_20210621T063002_20210621T063055_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_20210621T071127_20210621T071241_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_20210621T071747_20210621T072103_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_20210621T085222_20210621T085459_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_20210621T085652_20210621T090238_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_20210621T094738_20210621T094856_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_20210621T103042_20210621T103358_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_20210621T112650_20210621T112756_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_20210621T120955_20210621T121156_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_20210621T130604_20210621T131150_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210621T134928_20210621T135045_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_20210621T135843_20210621T140120_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_20210621T144623_20210621T145139_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_20210621T152848_20210621T153009_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_20210621T153859_20210621T154023_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_20210621T162824_20210621T163207_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_20210621T170838_20210621T171203_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_20210621T180720_20210621T180951_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_20210621T184743_20210621T185104_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_20210621T193724_20210621T193903_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_20210621T193906_20210621T193956_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_20210621T203510_20210621T203629_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_20210621T211754_20210621T211859_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_20210621T221219_20210621T221420_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_20210621T225632_20210621T225814_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_20210621T000912_20210621T001728_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_20210621T012700_20210621T013208_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_20210621T045949_20210621T050137_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_20210621T102856_20210621T103041_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210621T112002_20210621T112228_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_20210621T144120_20210621T144622_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_20210621T161831_20210621T162824_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_20210621T175905_20210621T180719_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_20210621T193956_20210621T194737_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_20210621T211859_20210621T212609_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_20210621T225814_20210621T230159_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_20210621T230159_20210621T230510_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:	1

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210621T113407_20210621T113556_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

### 5.6 L2 Measurement Quality Flag Check

### L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

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

> Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210621T001728_20210621T003154_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_20210621T003503_20210621T003947_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_20210621T003952_20210621T004004_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_20210621T004735_20210621T011305_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_20210621T032712_20210621T035049_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210621T035321_20210621T035817_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_20210621T040605_20210621T043959_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_20210621T045259_20210621T045600_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_20210621T050434_20210621T050609_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_20210621T051541_20210621T052216_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_20210621T052507_20210621T052630_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.

CPT_UE_BUNCT_2_201801T36140_20190T36280_0007         See Subscription (2010)         Introduction (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3013_201_2019T3016_000         Cold Allocate Target (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3013_201_2019T3016_000         Cold Allocate Target (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3013_201_2019T3016_000         Cold Allocate Target (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3013_201_2019T3016_000         Cold Allocate Target (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3013_201_2019T3016_000         Cold Allocate Target (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3013_201_2019T3016_000_000         Cold Allocate Target (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3014_000_000_00         Cold Allocate Target (2010)         Introduction (2010)         Introduction (2010)           CPT_UE_BUNCT_2_201801T3014_000_000_000_000_000_000_000_000_000_	CS_OFFL_SIR_NOPM_2_20210621T053320_20210621T053849_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CH, DEP, JER, VOPM, 2, 201061113313, 201061113314, 2011       and Backallin Calify ODCD       and Backallin Calify ODCD         CH, DEP, JER, VOPM, 2, 201061113314, 201061113314, 2011       Chao Physics Rays, BBA, RWH and Backallin Calify ODCD         CH, DEP, JER, VOPM, 2, 2010621130142, 2010621130140, 2011       Chao Physics Rays, BBA, RWH and Backallin Calify Physics Rays, BBA, RWH and Backallin Calify Physics Rays, BBA, RWH and Phase Rays, Charles Rays, Ch	CS_OFFL_SIR_NOPM_2_20210621T054540_20210621T062028_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2: 0F1, SR, NOPM, 2, 201001102018, 2010021109019, C001 PM Setting Congregations and setting Congregation of an an endown and setting Congregation of an antibiation of and antibiation of an antibiation of and antibiation of an antibiation of antibiatio	CS_OFFL_SIR_NOPM_2_20210621T063133_20210621T063318_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_QFFL_BB_NOPL_2_321821T05102_021821T05102_021921T05102_0219       Indicident D_adity CD_QB       and the SOCIA Minuter Regin of Datasets the CD_adity Flags have been additioned to addite the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been additioned to addite the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been addited to addited the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been addited to addited the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been addited to addited the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been addited to addited the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been addited to addited the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Aditioned Regin of Datasets the CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited the Social CD_Adity Flags have been addited to addited to addited the Social CD_Adity Flags have been addited to addited to addited to addited the Social CD_Adity Flags have been addited to addit	CS_OFFL_SIR_NOPM_2_20210621T063338_20210621T063343_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Die Ont, Sink, Norwit 2. 2001/02/11/02/02. 2019         Biskkeider Garly         Konten Conter works.           Citt, Sink, Norwit 2. 2001/02/11/02/02. 2019/02/11/02/02. 2019         Citt, Sink, Norwit 2. 2019/02/11/02/02/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02. 2019/02/11/02/02/02/02/02/02/02/02/02/02/02/02/02/	CS_OFFL_SIR_NOPM_2_20210621T065102_20210621T070818_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Call_OFFL_SR_NOPK_2_0210011107269_0210011002600_001         Imit Backsoater Qualy, CODB         Jost Backsoater Qualy, CODB         Jost Backsoater Qualy, CODB           CB_OFFL_SR_NOPK_2_0210021101197_02010021001000_001         Coers Alterier Rang, SSN, SWL         The Coors Alterier Rang, SSN, SWL           CB_OFFL_SR_NOPK_2_0210021108109_001         Coers Alterier Rang, SSN, SWL         The Coors Alterier Rang, SSN, SWL           CB_OFFL_SR_NOPK_2_0210021108109_001         Coers Alterier Rang, SSN, SWL         The Coors Alterier Rang, SSN, SWL           CB_OFFL_SR_NOPK_2_0210021108109_001         Coers Alterier Rang, SSN, SWL         The Coors Alterier Rang, SSN, SWL           CB_OFFL_SR_NOPK_2_0210021108109_001         Coers Alterier Rang, SSN, SWL         The Coors Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag           CB_OFFL_SR_NOPK_2_0210021108109_001         Coers Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag         The Coors Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag           CB_OFFL_SR_NOPK_2_0210021108109_002         Coers Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag         The Coors Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag           CB_OFFL_SR_NOPK_2_0210021108109_002         Coers Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag         The Coors Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag           CB_OFFL_SR_NOPK_2_020100211108400_0021         Coers Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag         The Coors Alterier Rang, SSN, SWL ord Backsoater Qualy, Flag           CB_OFFL_S	CS_OFFL_SIR_NOPM_2_20210621T071241_20210621T071747_C001		
DS_DFL_SR_NOP4_2_02100211011220_2021021101220_001         and Backsaber Quality, ODD         and Backsaber Quality, ODD           DS_DFL_SR_NOP4_2_021001100220_021001100220_021001100220_021001100220_02100100100200_0000         Costan Attentice Range, SBH, With and Backsaber Quality, ODD         The ODD Attentice Range, SBH, SWH and Backsaber Quality, ODD           CS_OFFL_SR_NOP4_2_021001100220_021001100220_021001100200_0000         Costan Attentice Range, SBH, SWH and Backsaber Quality, ODD attention Range and Backsaber Quality, ODD attention Range SBH, SWH and Backsaber Quality, ODD attention Range, SBH, SWH attention Range, SBH, SWH and Backsaber Quality, ODD Attention Range SBH, SWH attention Range, SBH, SWH Attention Range SBH, SWH attention Range SBH, SWH attentin Range SBH, SWH attention Range SBH, SWH attention Range SBH, S	CS_OFFL_SIR_NOPM_2_20210621T072425_20210621T080030_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Cicl_OFFL_SIR_NOPM_2_202100211000420_202100211004502_20001 Althoute Range and Backacater Coulty, OCG Althoute Range and Backacater Coulty Cicl_OFFL_SIR_NOPM_2_202100211000400_20210021000100_20001 Althoute Range and Backacater Coulty, OCG Althoute Range and Backacater Coulty, Page and Backacater Coulty, OCG Althoute Range and Backacater Coulty, Page Althoute Range and Backacater Coulty,	CS_OFFL_SIR_NOPM_2_20210621T081157_20210621T081209_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_0210821T0828_02210821T09100_C001       and Beaksatter Quality CoO       and the COO Allineer Range and Beaksatter Quality Flags have been Allineer Range and Beaksatter Quality Flags have been all beaksatter Quality Flags ha	CS_OFFL_SIR_NOPM_2_20210621T082240_20210621T084522_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210211702555_202102117065132_C001         and Backscatter Quality.OCO         and the OCOC Altimeter Range and Backscatter Quality Flags have been and bockscatter Quality.OCO           CS_OFFL_SIR_NOPM_2_202102117095132_C001         OCOG Altimeter Range SIA,SIM         The OCOC Altimeter Range and Backscatter Quality Flags have been and bockscatter Quality.OCO           CS_OFFL_SIR_NOPM_2_20210211701209_202108211710209_2021082117112089_2001         DCOG Altimeter Range SIM, SWH and Backscatter Quality Flags have been and backscatter Quality Flags have bee	CS_OFFL_SIR_NOPM_2_20210621T090426_20210621T091602_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Displant, Normal, 2, 001/00211008180_00010         Backscatter Quality         for one or more records.           CS_OFFL_SIR_NOPM_2_202100211010101_0001         Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags and the COGO Altimeter Range and Backscatter Quality Flags and the COGO Altimeter Range and Backscatter Quality Flags and the COGO Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality. GCOG           CS_OFFL_SIR_NOPM_2_202106211101209_2021062111102802_C001         Ocean Altimeter Range Quality, OCCG         The Ocean Altimeter Range and Backscatter Quality Flags have been and backscatter Quality Flags have been and backscatter Quality. GCOG           CS_OFFL_SIR_NOPM_2_202106211103586_202106211103604_C001         OCCGA Altimeter Range Quality, OCCG         The OCCGA Altimeter Range and Backscatter Quality Flags have been and backscatter Quality. GCOG           CS_OFFL_SIR_NOPM_2_202106211103586_202106211104106_C001         Backscatter Quality, OCCG         The OCCGA Altimeter Range and Backscatter Quality Flags have been and backscatter Quality. GCOG           CS_OFFL_SIR_NOPM_2_202106211104317_202106211104560_C001         OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and backscatter Quality. GCOG         The Ocean Altimeter Range and Backscatter Quality. Flags have been and backscatter Quality. GCOG           CS_OFFL_SIR_NOPM_2_202106211110641_Q02106211110642_C001         Ocean Altimeter Range and Backscatter Quality. Flags have been and backscatter Quality. GCOG           CS_OFFL_SIR_NOPM_2_202106211110642_C001         Ocean Altimeter Range.SSHA, SWH and Backscatter Quality. Flags have been and backscatter Quality. GCOG<	CS_OFFL_SIR_NOPM_2_20210621T092554_20210621T094018_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210621T102532_022021021T102532_0001       and the 02006 Allmeter Range and Backscatter Quality Flags have been Allmeter Range and Backscatter Quality Flags have been and the 02006 Allmeter Range and Backscatter Quality Flags have been and the 02006 Allmeter Range and Backscatter Quality Flags have been a	CS_OFFL_SIR_NOPM_2_20210621T094858_20210621T095132_C001		
CS_OFFL_SIR_NOPM_2_20210821T101209_20210821T102832_C001       and Backscatter Quality COCG       and the adscatter Quality COCG       and the adscatter Quality COCG         CS_OFFL_SIR_NOPM_2_20210821T103868_20210821T103804_C001       OCCOA Altimeter Range and Backscatter Quality COCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T103868_20210821T104108_C001       OCCGA Altimeter Range Quality. OCCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T103668_20210821T104108_C001       OCCGA Altimeter Range.SHA, SWH       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T100312_0210821T100402_C001       Ocean Altimeter Range.SHA, SWH and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T11021_20210821T110940_C001       Ocean Altimeter Range.SHA, SWH and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T112649_C001       Ocean Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T112649_C001       Ocean Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T112649_C001       Ocean Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for ne or more records.         CS_OFFL_SIR_NOPM_2_20210821T112649_C002       Ocea	CS_OFFL_SIR_NOPM_2_20210621T095320_20210621T101011_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210821T103658_20210621T104106_C001         DCCG Altimeter Range Quality, OCCG Backscatter Quality         The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210821T103358_20210621T104106_C001         OCCGA Altimeter Range, SNA, SWH and Backscatter Quality, OCCG Altimeter Range, SNA, SWH and Backscatter Quality, Page and the CCGA Altimeter Range, SNA, SWH and Backscatter Quality, Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210821T11021_20210821T110942_C001         Ocean Altimeter Range, SNA, SWH and Backscatter Quality, OCCG Altimeter Range, SNA, SWH and Backscatter Quality, CCGG Altimeter Range, SNA, SWH and Backscatter Quality, Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210821T11276_20210821T11248_C001         Ocean Altimeter Range and Backscatter Quality, Flags have been and Backscatter Quality, CCGG Backscatter Quality, CCGG Altimeter Range and Backscatter Quality, Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210821T11249_0021T114009_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, CCGG Altimeter Range, and Backscatter Quality, Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210821T112472_0210821T1120721_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210821T11245_02210821T120721_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210821T121245_02210821T1122020_C001         OCCGA Altimeter Range Altim	CS_OFFL_SIR_NOPM_2_20210621T101209_20210621T102632_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_202106211104307_202106211104305_0021110406_0001         Backscatter Quality         for one or more records.           CS_OFFL_SIR_NOPM_2_202106211104317_202106211105603_0001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOO Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Sets for one or more records.           CS_OFFL_SIR_NOPM_2_202106211110021_202106211110942_0001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_202106211112766_202106211112848_0001         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_202106211112766_202106211112848_0001         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_202106211112641_02016211112848_0001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_202106211113641_0201662111120721_0001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_202106211112616_020162111120721_0001         Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_202106211112620201211120721_0001         Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_2021062111120721_0001         Ocean Al	CS_OFFL_SIR_NOPM_2_20210621T103358_20210621T103604_C001		
CS_OFFL_SIR_NOPM_2_20210621T104317_20210621T103603_C001       and Backscatter Quality Ge or more records.         CS_OFFL_SIR_NOPM_2_20210621T110021_20210621T110942_C001       Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T11021_20210621T111248_C001       Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T112756_20210621T112848_C001       Cocan Altimeter Range Quality, OCOG Backscatter Quality, Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T113841_20210621T114909_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T113641_20210621T114909_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T115437_20210621T1120721_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122152_20210621T122009_C001       Decon Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122152_20210621T122009_C001       Decon Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122152_20210621T122029_C001       OCCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been ast for one or m	CS_OFFL_SIR_NOPM_2_20210621T103658_20210621T104106_C001	0 0	
CS_OFFL_SIR_NOPM_2_20210621T110021_20210621T110642_C001       and Backscatter Quality, OCGA       and the OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T112756_20210621T112648_C001       OCGA Altimeter Range and Backscatter Quality, OCGA       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T113641_20210621T114909_C001       Ocsan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T12156_20210621T12209_C001       OCGG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T123262_C001       OCGG Altimeter Range Quality, OCGG       The OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T132027_C001 <td>CS_OFFL_SIR_NOPM_2_20210621T104317_20210621T105603_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_NOPM_2_20210621T104317_20210621T105603_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210621T112/96_20210621T112946_0001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T113641_20210621T114909_C001       Ccean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T12156_20210621T120721_C001       Ocean Attimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T12156_20210621T122009_C001       OCOG Attimeter Range Quality, OCOG Backscatter Quality       The OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T122209_C001       OCCGA Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T123262_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T132027_C001       OCCGA Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_	CS_OFFL_SIR_NOPM_2_20210621T110021_20210621T110942_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210621T113641_20210621T114909_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20210621T115437_20210621T120721_C001       Ocean Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20210621T12156_20210621T122009_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T122826_C001       OCCG Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T12826_C001       OCCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T132027_C001       OCCG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T1377_C001       OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T1135046_20210621T135249_C001       OCCG Altimeter Range Q	CS_OFFL_SIR_NOPM_2_20210621T112756_20210621T112848_C001		
CS_OFFL_SIR_NOPM_2_20210621T115437_20210621T120721_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T121156_20210621T122009_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_20210621T122245_20210621T123826_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags hand Backscatter Quality.         CS_OFFL_SIR_NOPM_2_20210621T132052_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_20210621T13207_C001       OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T134717_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T135046_20210621T135249_C001       OCOG Altimeter Range Quality.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more reco	CS_OFFL_SIR_NOPM_2_20210621T113641_20210621T114909_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210621T12135_20210621T12209_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T123826_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T131416_20210621T132027_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T132027_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T135249_C001       Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG 	CS_OFFL_SIR_NOPM_2_20210621T115437_20210621T120721_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T123826_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T131416_20210621T132027_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_20210621T132107_20210621T13207_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T134717_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T135046_20210621T135249_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T135046_20210621T135249_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_20210621T121156_20210621T122009_C001		
CS_OFFL_SIR_NOPM_2_202100211132107_20210621T134717_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T134717_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T135046_20210621T135249_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records.         OCOG Altimeter Range Quality       OCOG Altimeter Range Quality, OCOG Decords.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210621T122245_20210621T123826_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T134717_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210621T135046_20210621T135249_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         OCOG Altimeter Range Quality       OCOG 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_20210621T131416_20210621T132027_C001		
Backscatter Quality DCOG Altimeter Range and Backscatter Quality Elans have been set	CS_OFFL_SIR_NOPM_2_20210621T132107_20210621T134717_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Altimeter Range Quality. OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPM_2_20210621T135046_20210621T135249_C001		
CS_OFFL_SIR_NOPM_2_20210621T135326_20210621T135843_C001 Backscatter Quality Go on more records.	CS_OFFL_SIR_NOPM_2_20210621T135326_20210621T135843_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_20210621T140249_20210621T142637_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_20210621T145904_20210621T152601_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_20210621T153254_20210621T153859_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_20210621T154123_20210621T160937_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_20210621T163207_20210621T170442_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_20210621T171203_20210621T171731_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_20210621T172040_20210621T172522_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_20210621T175612_20210621T175905_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_20210621T181102_20210621T182006_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_20210621T182250_20210621T184438_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_20210621T185104_20210621T185209_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_20210621T185213_20210621T185621_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_20210621T190033_20210621T191758_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_20210621T194737_20210621T202303_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_20210621T203113_20210621T203120_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_20210621T203127_20210621T203510_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_20210621T204209_20210621T211327_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_20210621T212609_20210621T214045_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_20210621T214527_20210621T214738_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_20210621T214823_20210621T220243_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_20210621T220449_20210621T221007_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_20210621T221013_20210621T221021_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_20210621T221042_20210621T221219_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_20210621T222023_20210621T223346_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_20210621T223600_20210621T223716_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_20210621T223754_20210621T224917_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_20210621T231524_20210621T232412_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_20210621T232727_20210621T234135_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_20210621T234416_20210621T234919_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_20210621T234956_20210621T235057_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_20210621T235752_20210621T235900_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_20210621T003244_20210621T003503_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_20210621T014420_20210621T014644_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_20210621T035817_20210621T035825_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_20210621T114909_20210621T115437_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_20210620T235951_20210621T000032_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_20210621T120721_20210621T120955_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_20210621T152601_20210621T152848_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_20210621T214739_20210621T214823_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.

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### Number of products with errors:

Product		Description
CS_OFFL_SIR_NOPN_2_20210621T003244_20210621T003503_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_20210621T012308_20210621T012700_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_20210621T014152_20210621T014322_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_20210621T032051_20210621T032157_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_20210621T051016_20210621T051154_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_20210621T063343_20210621T063457_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_20210621T064837_20210621T065101_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_20210621T085652_20210621T090238_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_20210621T102755_20210621T102856_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_20210621T110943_20210621T111157_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_20210621T114909_20210621T115437_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_20210621T120955_20210621T121156_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_20210621T130604_20210621T131150_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_20210621T134928_20210621T135045_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_20210621T142637_20210621T142735_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_20210621T144623_20210621T145139_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_20210621T152848_20210621T153009_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_20210621T153859_20210621T154023_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_20210621T162824_20210621T163207_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_20210621T170838_20210621T171203_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_20210621T171731_20210621T171848_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_20210621T175506_20210621T175553_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_20210621T184743_20210621T185104_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_20210621T185621_20210621T185745_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_20210621T193724_20210621T193903_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_20210621T193906_20210621T193956_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_20210621T202443_20210621T202521_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_20210621T225632_20210621T225814_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_20210621T231229_20210621T231524_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_20210621T234229_20210621T234416_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_20210621T000912_20210621T001728_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_20210621T004521_20210621T004735_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_20210621T011306_20210621T011358_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_20210621T012700_20210621T013208_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_20210621T013244_20210621T013417_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_20210621T014053_20210621T014124_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_20210621T031251_20210621T031525_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_20210621T044112_20210621T044153_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_20210621T050253_20210621T050434_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	The Occas Alimeter Dance COUA CAMULand Deckarding Outline Flags
CS_OFFL_SIR_NOPR_2_20210621T052945_20210621T053200_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_NOPR_2_20210621T054205_20210621T054540_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_20210621T063524_20210621T063738_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_20210621T070819_20210621T071127_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_20210621T072104_20210621T072425_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_20210621T084523_20210621T085221_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_20210621T090238_20210621T090425_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH 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_20210621T102856_20210621T103041_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_20210621T120721_20210621T120955_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_20210621T132027_20210621T132107_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_20210621T143716_20210621T143924_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_20210621T144120_20210621T144622_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_20210621T154023_20210621T154123_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_20210621T161831_20210621T162824_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH 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_20210621T170442_20210621T170838_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_20210621T175214_20210621T175452_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_20210621T175905_20210621T180719_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_20210621T184438_20210621T184743_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_20210621T185745_20210621T190033_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_20210621T193956_20210621T194737_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_20210621T202303_20210621T202443_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_20210621T203629_20210621T204209_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_20210621T211859_20210621T212609_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_20210621T221420_20210621T222022_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_20210621T223347_20210621T223600_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_20210621T223717_20210621T223754_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_20210621T225814_20210621T230159_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_20210621T230159_2021	0621T230510_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.				
L2 Quality Flags (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:	172						

5.7 L2 Ocean Retracking Quality Check						
L2 Retracking Flags (20Hz)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.						

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

55

129

Number of products with errors:

### 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:

## 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	135	135	3	132	0
SIR_NOPR1B	90	90	0	90	0
SIR_NOPN1B	87	87	1	86	0
SIR_NOPM_2	135	135	84	42	9
SIR_NOPR_2	90	90	22	65	3
SIR_NOPN_2	87	87	28	57	2

### 7.1 QCC Errors

Number of QCC	c reports with	errors:	21								
					Total number	of occurrences	of each error				
Product Type	EOVSNCDF	MPHSVSNCDF	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-
SIR_NOPM_2	9	9	0	0	0	0					
SIR_NOPN_2	2	2	0	0	0	0					
SIR_NOPR_2	1	1	2	2	2	2					
Test Descriptio	n Key:										

iest beschption Rey.				
Abbreviation	Test name	Details		
EOVSNCDF	EnumOrbitVectorSourceNetCDF	Orbit vector source should match one of the allowed enumeration values - NetCDF		
MPHSVSNCDF	MPH_State_Vector_Source_NetCDF	State_Vector_Source mismatch		
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF		
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7		
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF		
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7		
1		I. Contraction of the second se		

### 7.2 QCC Warnings

umber of QCC repo	orts with warnings	1640	Total mum		a a ha su a su a su a su a su a su a su		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	ber of occurrences of ea MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR_NOPM1B	132	0	0	0	0	0	0
SIR_NOPM_2	0	0	40	38	0	34	0
SIR_NOPN1B	85	0	0	0	0	0	0
SIR_NOPN_2	0	0	8	34	3	24	22
SIR_NOPR1B	87	0	0	0	0	0	0
SIR_NOPR_2	0	2	35	44	0	41	34
		÷					
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	CRPEPOPFDPLRMSINNCC	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	28	2	33	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	19	0	0	0	28	0	33
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	20	0	0	51	0	55	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	28	0	0	7	27	0	3
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	30	14	40	50	24
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	50	0	2	57	40	11
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	34	0	2	0	0	0	
SIR_NOPN1B	0	0	0	0	38	1	
SIR_NOPN_2	23	27	9	3	0	0	
SIR_NOPR1B	0	0	0	0	90	0	
SIR_NOPR_2	42	49	4	3	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				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				

MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 decrees
	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
NCDF 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 troe = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70
CDF RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	and 70 degrees The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	and 70 degrees 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 =
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 decrees
RSWHOEPFDPLRMN	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0