

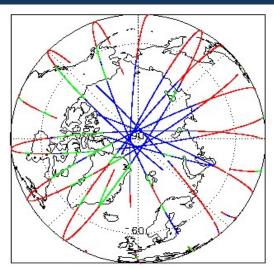
1. Overview

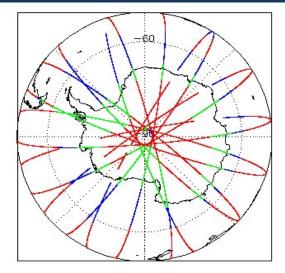
Report Production:	25-Aug-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

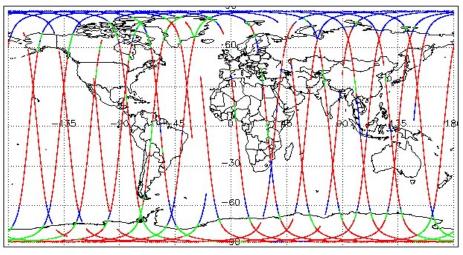
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.2

Mission / Instrument News		
23-Aug-2022 None		
24-Aug-2022	None	
25-Aug-2022	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

4.2 L1B Product Header Analysis

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

> L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSAR and OSAR political in required in the part 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:

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:

0

4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. The attitude correction is not actually missing, This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20220824T053259_20220824T053950_C001		There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20220824T070723_20220824T071432_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20220824T150142_20220824T150246_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20220824T164648_20220824T165123_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20220824T170829_20220824T171214_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20220824T003333_20220824T004718_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20220824T014230_20220824T015816_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20220824T021135_20220824T023219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20220824T080237_20220824T083440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20220824T131624_20220824T132546_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220824T020225_20220824T020440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220824T120345_20220824T120714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220824T120717_20220824T120806_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220824T134241_20220824T134354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220824T134527_20220824T134752_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220824T184404_20220824T184905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220824T201430_20220824T201524_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220824T102807_20220824T103821_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220824T165730_20220824T170151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220824T200842_20220824T201141_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220824T223851_20220824T224104_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors: 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:

5.3 L2 Auxiliary Data File Usage Check

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

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

5.4 L2 Auxiliary Correction Error Check

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220824T053116_20220824T053247_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_20220824T002427_20220824T002525_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_20220824T011839_20220824T012051_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_20220824T020225_20220824T020440_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_20220824T024858_20220824T025045_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_20220824T025729_20220824T030351_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_20220824T033909_20220824T034305_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_20220824T110742_20220824T111021_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_20220824T111250_20220824T111812_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_20220824T120345_20220824T120714_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20220824T120717_20220824T120806_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20220824T124726_20220824T125002_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_20220824T134241_20220824T134354_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_20220824T142429_20220824T142652_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_20220824T152445_20220824T152628_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_20220824T160446_20220824T160638_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_20220824T165701_20220824T165730_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_20220824T174424_20220824T174603_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_20220824T192420_20220824T192802_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_20220824T210349_20220824T210707_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_20220824T211219_20220824T211345_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_20220824T214446_20220824T214509_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_20220824T215439_20220824T215538_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_20220824T225127_20220824T225234_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_20220824T002525_20220824T003107_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_20220824T020440_20220824T021135_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_20220824T034305_20220824T034827_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_20220824T052127_20220824T052840_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_20220824T065850_20220824T070626_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_20220824T071655_20220824T071747_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_20220824T115811_20220824T120345_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_20220824T133559_20220824T134241_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_20220824T151550_20220824T152203_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_20220824T165317_20220824T165543_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_20220824T165730_20220824T170151_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_20220824T183556_20220824T184404_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_20220824T201524_20220824T202311_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_20220824T215538_20220824T220345_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_20220824T233500_20220824T234220_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220824T053259_20220824T053950_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20220824T070723_20220824T071432_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20220824T141249_20220824T141315_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20220824T150142_20220824T150246_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20220824T164648_20220824T165123_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20220824T170829_20220824T171214_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220823T234834_20220824T001937_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_20220824T003333_20220824T004718_C001	and Backscatter Quality, OCOG Altimeter	The Ocean Altimeter Range, SSHA, SWH 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_20220824T004721_20220824T010854_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_20220824T011127_20220824T011633_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_20220824T011711_20220824T011839_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_20220824T012612_20220824T013611_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_20220824T014230_20220824T015816_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_20220824T021135_20220824T023219_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_20220824T023358_20220824T024731_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_20220824T025045_20220824T025545_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_20220824T025626_20220824T025729_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_20220824T030355_20220824T032322_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_20220824T032329_20220824T032609_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_20220824T032731_20220824T033821_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_20220824T040502_20220824T042551_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_20220824T043126_20220824T043503_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_20220824T044222_20220824T051006_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_20220824T054112_20220824T060544_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_20220824T060909_20220824T061418_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_20220824T061425_20220824T061752_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_20220824T062149_20220824T065506_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_20220824T070723_20220824T071432_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_20220824T071749_20220824T072527_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_20220824T074059_20220824T074509_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_20220824T074910_20220824T075452_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_20220824T080237_20220824T083440_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_20220824T083658_20220824T083713_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_20220824T111039_20220824T111250_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_20220824T112032_20220824T115626_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_20220824T120806_20220824T122719_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_20220824T122804_20220824T124125_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_20220824T125002_20220824T125159_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_20220824T125325_20220824T125702_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_20220824T125928_20220824T131422_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_20220824T131624_20220824T132546_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_20220824T134752_20220824T140506_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_20220824T142119_20220824T142229_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_20220824T143131_20220824T143604_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_20220824T143901_20220824T145326_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_20220824T152723_20220824T152734_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_20220824T152742_20220824T153000_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_20220824T153123_20220824T153835_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_20220824T153838_20220824T160256_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_20220824T160638_20220824T160854_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_20220824T160900_20220824T161501_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_20220824T161854_20220824T164329_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_20220824T170829_20220824T171214_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_20220824T171428_20220824T174204_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_20220824T174850_20220824T175305_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_20220824T175805_20220824T182227_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_20220824T182416_20220824T182609_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_20220824T184905_20220824T191935_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_20220824T192802_20220824T193343_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_20220824T193715_20220824T194125_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_20220824T201242_20220824T201430_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_20220824T202710_20220824T205958_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_20220824T210707_20220824T211219_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
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CS_OFFL_SIR_NOPM_2_20220824T211755_20220824T213355_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_20220824T220345_20220824T223851_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_20220824T224455_20220824T224707_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_20220824T224714_20220824T225127_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_20220824T225632_20220824T232215_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_20220824T233214_20220824T233345_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_20220824T234220_20220824T234759_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_20220824T234820_20220824T235643_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_20220824T013611_20220824T013717_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_20220824T125702_20220824T125839_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_20220824T160446_20220824T160638_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_20220824T202311_20220824T202440_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_20220824T211219_20220824T211345_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_20220824T214446_20220824T214509_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_20220824T011633_20220824T011640_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_20220824T034305_20220824T034827_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_20220824T111812_20220824T112032_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_20220824T115811_20220824T120345_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_20220824T200842_20220824T201141_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20220824T010945_20220824T011127_C001	Altimeter Pange 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_20220824T015816_20220824T020117_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_NOPN_2_20220824T024858_20220824T025045_C001	Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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An of the content Conference Co	CS_OFFL_SIR_NOPN_2_20220824T025729_20220824T030351_C001		
Commonstrate Comm	CS_OFFL_SIR_NOPN_2_20220824T033909_20220824T034305_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Company	CS_OFFL_SIR_NOPN_2_20220824T111250_20220824T111812_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CRITERION 2 2020084114402 202084114131792 COST	CS_OFFL_SIR_NOPN_2_20220824T120345_20220824T120714_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_NOFN_2_2020824T14092_2020824T19032_2010 CS_OFF_SIR_NOFN_2_2020824T14092_2020824T19032_2010 CS_OFF_SIR_NOFN_2_2020824T14092_2020824T19032_2010 CS_OFF_SIR_NOFN_2_2020824T17092_2020824T17092_2010 CS_OFF_SIR_NOFN_2_2020824T17092_2020824T17092_2010 CS_OFF_SIR_NOFN_2_2020824T17092_2010824T17092_2010 CS_OFF_SIR_NOFN_2_2020824T17092_2010824T17092_2010 CS_OFF_SIR_NOFN_2_2020824T17092_2010824T17092_2010 CS_OFF_SIR_NOFN_2_2020824T17092_2010824T17092_2010 CS_OFF_SIR_NOFN_2_2020824T17092_2010824T17092_2010824T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_201082554T17092_2010825554T17092_2010825554T17092_2010825554T17092	CS_OFFL_SIR_NOPN_2_20220824T134527_20220824T134752_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_NOPN_2_2022884114606_202084114600_C001 CB_OFFL_SIR_NOPN_2_2022884114606_202084114600_C001 CB_OFFL_SIR_NOPN_2_20228841174046_202084116000_C001 CB_OFFL_SIR_NOPN_2_20228841174046_2020841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174046_2020841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174046_2020841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174046_2020841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174046_2020841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C001 CB_OFFL_SIR_NOPN_2_20228841174050_C002841174050_C001 CB_OFFL_SIR_NOPN_2_20228841176000_C001 CB_OFFL_SIR_NOPN_2_20228841176000_C002884201186000_C001 CB_OFFL_SIR_NOPN_2_20228841186000_C001 CB_OFFL_SIR_NOPN_2_202288411	CS_OFFL_SIR_NOPN_2_20220824T140506_20220824T141031_C001		
SS_OFFL_SIR_NOPN_2_7020804T14004_7020084T19083_C001 All resider Range A callaboration County All residence Range Castilly PLRM. CSL_OFFL_SIR_NOPN_2_7020804T19044_7020084T19083_C001 CSL_OFFL_SIR_NOPN_2_7020804T19044_7020084T19083_C001 CSL_OFFL_SIR_NOPN_2_7020804T19044_7020084T19083_C001 CSL_OFFL_SIR_NOPN_2_7020804T19044_7020084T19083_C001 CSL_OFFL_SIR_NOPN_2_7020804T19044_7020084T19030_C001 CSL_OFFL_SIR_NOPN_2_7020804T19044_7020084T19000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19044_7020084T19000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_702004T19000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_702004T19000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_702004T19000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_702004T19000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19000_70201 CSL_OFFL_SIR_NOPN_2_7020804T19040_702004T19000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_702004T190000_C001 CSL_OFFL_SIR_NOPN_2_7020804T19040_702004T190000_C001 CSL_OFFL_SIR_NOPN_2_7020804T190000_C001 CSL_OFFL_S	CS_OFFL_SIR_NOPN_2_20220824T142429_20220824T142652_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20220824T19046_20220824T170838_C001 All COORD Allmeter Range and Blackscater Quality Flags have been set for one of mice records The OCOG Range and Backscater Quality Flags have been set for one of mice records CS_OFFL_SIR_NOPN_2_20220824T170267_20220824T17485_C001 CS_OFFL_SIR_NOPN_2_20220824T174262_20220824T17485_C001 CS_OFFL_SIR_NOPN_2_20220824T174262_20220824T17485_C001 CS_OFFL_SIR_NOPN_2_20220824T174262_20220824T17485_C001 CS_OFFL_SIR_NOPN_2_20220824T174262_20220824T17485_C001 CS_OFFL_SIR_NOPN_2_20220824T174262_20220824T17485_C001 CS_OFFL_SIR_NOPN_2_20220824T174262_20220824T17485_C001 CS_OFFL_SIR_NOPN_2_20220824T174865_C001 CS_OFFL_SIR_NOPN_2_20220824T178565_20220824T178605_C001 CS_OFFL_SIR_NOPN_2_20220824T186464_20220824T1865_C001 CS_OFFL_SIR_NOPN_2_20220824T186465_C001 CS_OFFL_SIR_NOPN_2_20220824T186465_C001 CS_OFFL_SIR_NOPN_2_20220824T186469_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T186469_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T18665_C001 CS_OFFL_SIR_NOPN_2_20220824T18666_C001 CREATER Flags and Stackscater Coultify Flags have been set for one of mice records CS_OFFL_SIR_NOPN_2_20220824T18666_C001 CREATER Flags and Stackscater Coultify Flags have been set for one of mice records CS_OFFL_SIR_NOPN_2_20220824T18666_C001 CREATER Flags and Stackscater Coultify Flags have been set for one of mice records CS_OFFL_SIR_NOPN_2_20220824T18666_C001 CREATER Flags and Stackscater Coultify Flags have been set for one of mice records CS_OFFL_SIR_NOPN_2_20220824T18666_C001 CREATER Flags and Stackscater Coultify Flags have been set for one of mice records CS_OFFL_SIR_NOPN_2_20220824T18666_C001 CREATER Flags and Stackscater Coultify Flags have been set for one of mice records CS_OFFL_SIR_NOPN_2_20220824T19666_C001 CREATER Flags and Stackscater Coultify Flags have	CS_OFFL_SIR_NOPN_2_20220824T143604_20220824T143750_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCC Bedscarter Guilty CS_OFFL_SR_NOPN_2_20220824T17415_2022824T17460_CD01 OCC Allimeter Range Duality PLRM. CDC Bedscarter Quality The OCCG Range and Bedscarter Quality Plags have been set for one or once records. CS_OFFL_SR_NOPN_2_20220824T174424_2022824T17460_CD01 OCC Allimeter Range Duality PLRM. CDC Bedscarter Quality The OCCG Range and Bedscarter Quality Plags have been set for one or once records. The OCCG Range and Bedscarter Quality Plags have been set for one or once records. The OCCG Range and Bedscarter Quality Plags have been set for one or once records. OCCG Allimeter Range Quality PLRM. CDC Bedscarter Quality PLRM. CDC Beds	CS_OFFL_SIR_NOPN_2_20220824T160446_20220824T160638_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Gualty CS_OFFL_SIR_NOPN_2_202208241174424_202208241174809_C001 CS_OFFL_SIR_NOPN_2_202208241174722_202208241174809_C001 CS_OFFL_SIR_NOPN_2_202208241174722_202208241174809_C001 CS_OFFL_SIR_NOPN_2_202208241174722_202208241174809_C001 CS_OFFL_SIR_NOPN_2_20220824118404_202208241184006_C001 CS_OFFL_SIR_NOPN_2_20220824118404_202208241184006_C001 CS_OFFL_SIR_NOPN_2_202208241182402_202208241192802_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241192402_C001 CS_OFFL_SIR_NOPN_2_202208241200442_C001 CS_OFFL_SIR_NOPN_2_202208241200442_C001 CS_OFFL_SIR_NOPN_2_202208241200442_C001 CS_OFFL_SIR_NOPN_2_202208241210404_2022082412004000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20220824T170707_20220824T170829_C001		
CS_OFFL_SIR_NOPN_2_20220824T174722_20220824T174850_C001 CS_OFFL_SIR_NOPN_2_20220824T174722_20220824T174850_C001 CS_OFFL_SIR_NOPN_2_20220824T175305_20220824T175600_C001 CS_OFFL_SIR_NOPN_2_20220824T175305_20220824T175600_C001 CS_OFFL_SIR_NOPN_2_20220824T184404_20220824T184905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T184905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T194905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T194905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T194905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T194905_C001 CS_OFFL_SIR_NOPN_2_20220824T1949038_20220824T19459_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CCG_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CCG_OFFL_SIR_NOPN_2_20220824T20049_20220824T200442_C001 CCG_OFFL_SIR_NOPN_2_20220824T20049_2020824T200440_C001 CCG_OFFL_SIR_NOPN_2_20220824T20049_2020824T200440_C001 CCG_OFFL_SIR_NOPN_2_20220824T20049_2020824T200440_C001 CCG_OFFL_SIR_NOPN_2_20220824T20449_20220824T200440_C001 CCG_OFFL_SIR_NOPN_2_20220824T20449_20220824T20459_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG_OFFL_SIR_NOPN_2_20220824T21049_20220824T210450_C001 CCG	CS_OFFL_SIR_NOPN_2_20220824T171215_20220824T171415_C001		
CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T184905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T184905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T184905_C001 CS_OFFL_SIR_NOPN_2_20220824T194404_20220824T184905_C001 CS_OFFL_SIR_NOPN_2_20220824T192402_20220824T192802_C001 CS_OFFL_SIR_NOPN_2_20220824T19343_20220824T193458_C001 CS_OFFL_SIR_NOPN_2_20220824T19343_20220824T193458_C001 CS_OFFL_SIR_NOPN_2_20220824T192032_20220824T193458_C001 CS_OFFL_SIR_NOPN_2_20220824T20239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20349_20220824T20707_C001 CS_OFFL_SIR_NOPN_2_20220824T20349_20220824T20707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T210448_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T211345_20201 CS_OFFL_SIR_NOPN_2_20220824T211345_20201 CS_OFFL_SIR_NOPN_2_20220824T211345_20201 CCOCA Altimeter Range Quality PLRM, COCG Backscatter	CS_OFFL_SIR_NOPN_2_20220824T174424_20220824T174603_C001		
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more	CS_OFFL_SIR_NOPN_2_20220824T174722_20220824T174850_C001		
OCG Backscatter Quality CS_OFFL_SIR_NOPN_2_20220824T192420_20220824T192802_C001 CS_OFFL_SIR_NOPN_2_20220824T193432_20220824T193458_C001 CS_OFFL_SIR_NOPN_2_20220824T195038_20220824T195452_C001 CS_OFFL_SIR_NOPN_2_20220824T195038_20220824T195412_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_2020824T200707_C001 CS_OFFL_SIR_NOPN_2_20220824T20039_2020824T207070_C001 CS_OFFL_SIR_NOPN_2_20220824T21039_20220824T207070_C001 CS_OFFL_SIR_NOPN_2_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T214486_20220824T214559_C001 CS_OFFL_SIR_NOPN_2_20220824T214486_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T21449_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T21449_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T21449_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T21449_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T216503_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T216503_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T216503_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T216503_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T216503_C001 CS_OFFL_SIR_NOPN_2_20220824T216439_20220824T216503_C001 CS_OFFL_SIR_NOPN_2_20220824T216459_C001 CS_OFFL_SIR_NOPN_2_20220824T216459_C001 CS_OFFL_SIR_NOPN_2_20220824T216459_C001 CS_O	CS_OFFL_SIR_NOPN_2_20220824T175305_20220824T175600_C001		
and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM of Society PLR	CS_OFFL_SIR_NOPN_2_20220824T184404_20220824T184905_C001		
CS_OFFL_SIR_NOPN_2_20220824T193343_20220824T195412_C001 CS_OFFL_SIR_NOPN_2_20220824T195038_20220824T195412_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T202518_20220824T20070_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C	CS_OFFL_SIR_NOPN_2_20220824T192420_20220824T192802_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 CS_OFFL_SIR_NOPN_2_20220824T202518_20220824T20710_C001 CS_OFFL_SIR_NOPN_2_20220824T202518_20220824T20707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T2114446_20220824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T224455_C001 CCG_Altimeter Range Quality PLRM, COCG_Altimeter Range Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records The OCGG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20220824T193343_20220824T193458_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001 and Backscatter Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220824T202518_20220824T20770_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T21345_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T21345_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T214346_2020824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T225538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T225538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T225538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T225538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T225538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T225538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T225538_C001 CS_OFFL_SIR_NOPN_2_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220	CS_OFFL_SIR_NOPN_2_20220824T195038_20220824T195412_C001		
CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001 CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20220824T200239_20220824T200442_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T21543	CS_OFFL_SIR_NOPN_2_20220824T202518_20220824T202710_C001		
CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T214509_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 CS_OFFL_SIR_NOPN_2_20220824T224104_20220824T224455_C001 CS_OFFL_SIR_NOPN_2_20220824T24104_20220824T224455_C001 CS_OFFL_SIR_NOPN_2_20220824T224455_C001 CS_OFFL_SIR_NOPN_2_20220824T224455_C001 CS_OFFL_SIR_NOPN_2_20220824T224455_C001 CS_OFFL_SIR_NOPN_2_20220824T224455_C001 CS	CS_OFFL_SIR_NOPN_2_20220824T210349_20220824T210707_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality OCOG Backscatter Quality OCOG 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 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20220824T211219_20220824T211345_C001		
CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220824T224104_20220824T224455_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20220824T214446_20220824T214509_C001		
OCOG Backscatter Quality PLPM The OCOG Pange and Backscatter Quality Flage have been set for one or	CS_OFFL_SIR_NOPN_2_20220824T215439_20220824T215538_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOC Altimeter Panga Quality DI PM The OCOC Panga and Daskgoother Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_20220824T224104_20220824T224455_C001		
CS_OFFL_SIR_NOPN_2_20220824T225127_20220824T225234_C001 OCOG Backscatter Quality PLRM, OCOG Backscatter Quality Plags nave been set for one or more records	CS_OFFL_SIR_NOPN_2_20220824T225127_20220824T225234_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	
CS_OFFL_SIR_NOPR_2_20220824T002525_20220824T003107_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_20220824T010854_20220824T010945_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_20220824T012051_20220824T012547_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_20220824T014017_20220824T014230_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_20220824T020440_20220824T021135_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_20220824T024731_20220824T024858_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_20220824T034305_20220824T034827_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_20220824T042551_20220824T042853_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_20220824T052127_20220824T052840_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_20220824T052840_20220824T053116_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_20220824T060545_20220824T060735_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_20220824T061922_20220824T062149_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_20220824T065850_20220824T070626_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_20220824T071655_20220824T071747_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_20220824T074509_20220824T074750_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_20220824T075808_20220824T080237_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_20220824T110132_20220824T110742_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_20220824T115626_20220824T115716_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_20220824T115811_20220824T120345_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_20220824T122719_20220824T122804_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_20220824T124125_20220824T124726_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_20220824T133559_20220824T134241_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_20220824T143750_20220824T143901_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_20220824T145326_20220824T150142_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_20220824T151550_20220824T152203_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_20220824T160257_20220824T160446_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_20220824T165730_20220824T170151_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_20220824T174204_20220824T174424_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_20220824T175600_20220824T175805_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_20220824T191935_20220824T192420_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_20220824T193458_20220824T193715_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_20220824T200842_20220824T201141_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_20220824T201524_20220824T202311_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_20220824T202440_20220824T202518_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_20220824T205958_20220824T210349_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_20220824T211345_20220824T211755_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_20220824T215538_20220824T220345_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_20220824T223851_20220824T224104_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_20220824T225234_20220824T225632_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_20220824T233500_20220824T234220_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_20220824T234759_20220824T234820_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors: 14

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors: 4

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors: 107

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	127	127	1	126	0
SIR_NOPR1B	79	79	0	79	0
SIR_NOPN1B	75	75	2	73	0
SIR_NOPM_2	120	120	79	41	0
SIR_NOPR_2	77	77	23	54	0
SIR NOPN 2	74	74	27	47	0

7.1 QCC Errors

Number of QCC reports with warnings

1371

Total number of occurrences of each warning

rotal number of occurrences of each warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_NOPM1B	126	0	0	0	0	0	0
SIR_NOPM_2	0	28	35	0	32	0	30
SIR_NOPN1B	71	0	0	0	0	0	0
SIR_NOPN_2	0	8	27	2	20	22	17
SIR_NOPR1B	78	0	0	0	0	0	0
SIR_NOPR_2	0	31	33	0	29	31	18

Product Type	RMSSGHOPONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDF	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	1	27	0	0	0	0	23
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	0	19	0	24	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	0	35	0	35	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	12	20	0	5	28
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	20	13	36	39	24	23
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	36	0	3	48	33	8	29

	Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
	SIR_NOPM1B	0	0	0	0	0	0	
	SIR_NOPM_2	0	4	0	0	0	0	
	SIR_NOPN1B	0	0	0	0	37	0	
	SIR_NOPN_2	21	10	1	2	0	0	
	SIR_NOPR1B	0	0	0	0	79	2	
Т	SIR NOPR 2	34	1	0	1	0	0	

Test Description Key:	Test name	Dataila
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RMSSGHOPONCDF	RangeMSSGeoidHeightOPOceanNetCDF	#N/A
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 F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
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