

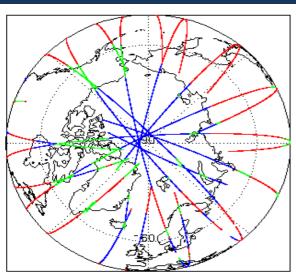
1. Overview

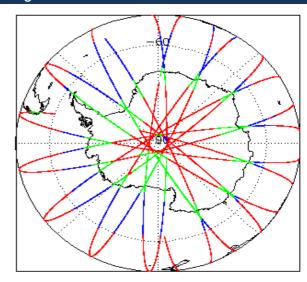
Report Production:	23-Nov-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

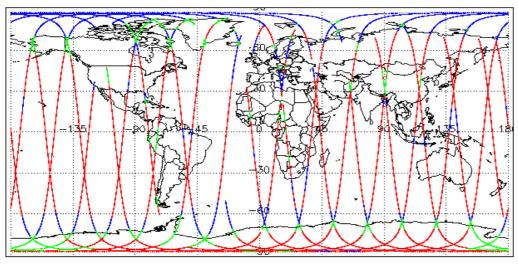
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

Mission / Instrument News		
21-Nov-2021	None	
22-Nov-2021	None	
23-Nov-2021	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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).

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

Λ

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. This is being investigated and will be updated in the next SW update.

Number of products with errors:

0

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

16

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20211122T014608_20211122T015618_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211122T085120_20211122T085404_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211122T151106_20211122T152717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211122T030246_20211122T030857_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211122T054115_20211122T054613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211122T120931_20211122T121003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211122T153104_20211122T153319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211122T163436_20211122T163634_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211122T203458_20211122T203531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211122T012030_20211122T012728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211122T045702_20211122T045822_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211122T102300_20211122T102507_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211122T103408_20211122T104244_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211122T170518_20211122T170739_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211122T194754_20211122T194930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211122T203531_20211122T203952_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:

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Description

		Thousing an amountable the Maria Donald T
CS_OFFL_SIR_NOPM_2_20211122T033427_20211122T034927_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20211122T040825_20211122T042213_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20211122T085120_20211122T085404_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20211122T190009_20211122T190026_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_20211122T012728_20211122T013004_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_20211122T022242_20211122T022403_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_20211122T030246_20211122T030857_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_20211122T040201_20211122T040305_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_20211122T040618_20211122T040825_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20211122T054115_20211122T054613_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_20211122T080553_20211122T080759_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	
CS_OFFL_SIR_NOPN_2_20211122T094350_20211122T094708_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_20211122T112243_20211122T112602_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_20211122T113125_20211122T113249_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_20211122T130946_20211122T131120_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_20211122T135304_20211122T135404_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_20211122T144718_20211122T144925_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_20211122T153104_20211122T153319_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_20211122T161735_20211122T161921_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_20211122T163436_20211122T163634_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20211122T170739_20211122T171147_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_20211122T180702_20211122T180904_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_20211122T211618_20211122T211743_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_20211122T212531_20211122T212644_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20211122T221715_20211122T221803_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20211122T225546_20211122T225635_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_20211122T230223_20211122T230526_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_20211122T024503_20211122T024717_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_NOPR_2_20211122T035532_20211122T035704_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_20211122T054614_20211122T054826_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_20211122T071629_20211122T072137_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_20211122T084427_20211122T084536_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_20211122T084546_20211122T084624_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_20211122T085003_20211122T085120_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_20211122T085528_20211122T090336_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_20211122T103408_20211122T104244_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_20211122T121504_20211122T122214_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_20211122T135404_20211122T135948_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_20211122T153320_20211122T154009_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_20211122T170518_20211122T170739_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_20211122T171147_20211122T171709_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_20211122T185011_20211122T190008_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_20211122T202723_20211122T203458_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:

0

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

Product

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

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

Test Failed

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20211121T235948_20211122T003242_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_20211122T005621_20211122T012030_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_20211122T013004_20211122T013156_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_20211122T013937_20211122T014606_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_20211122T020100_20211122T020930_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_20211122T021104_20211122T021159_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_20211122T022403_20211122T022659_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_20211122T022847_20211122T024503_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_20211122T024717_20211122T030202_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_20211122T031154_20211122T031611_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_20211122T031817_20211122T033248_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_20211122T033427_20211122T034927_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_20211122T040825_20211122T042213_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_20211122T042912_20211122T044256_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_20211122T044651_20211122T045514_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_20211122T045823_20211122T052017_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_20211122T054826_20211122T055400_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_20211122T055622_20211122T062158_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.

CO. CHILDRICHICANI, 201112/102009 201112/102	CS_OFFL_SIR_NOPM_2_20211122T062552_20211122T062749_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 SP NOME 2 2011127002F0 2011127002F0 2010 CS OFFL SP NOME 2 2011127002F0 2011127002F0 2011127002F0 2010 CS OFFL SP NOME 2 2011127002F0 20	CS_OFFL_SIR_NOPM_2_20211122T062837_20211122T063332_C001		
### CODO Altered Parage and Bookscarer Coulty Page 1 feet Noted Name Page and Bookscarer Coulty Page 1 feet Noted Name Page 2 feet Noted	CS_OFFL_SIR_NOPM_2_20211122T063918_20211122T070156_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description (Party 2-) (Internal Control (Par	CS_OFFL_SIR_NOPM_2_20211122T073507_20211122T075959_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SOUTH_SPILNOPM_2_20211122T106009_20211122T106009_C001 Shimler Finage and Editococcur Cally Finage New Deep Long All North Page 20211122T106009_20211122T106009_C001 Shimler Finage and Editococcur Cally Finage New Deep Long All North Page 20211122T106009_C001 Shimler Finage and Editococcur Cally Finage New Deep Long All North Page 20211122T106009_C001 Shimler Finage and Editococcur Cally Finage New Deep Long All North Page 20211122T106009_C001 Shimler Finage and Editococcur Cally Finage New Deep Long All North Page 20211122T106009_C001 Shimler Finage and Editococcur Cally Finage New Deep Long All North Page 20211122T106009_C001 Shimler Finage and Editococcur Cally Finage New Deep Long All North Page 20211122T106009_C0011122T10	CS_OFFL_SIR_NOPM_2_20211122T080800_20211122T081358_C001		
CB_OFFL_SIR_NOPM_2_20211122T100189_20211122T100189_2011122T1100189_2011122T100189	CS_OFFL_SIR_NOPM_2_20211122T081713_20211122T083613_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DG_OFFL_SIR_NOPM_2_20211122T195979_20211122T195931_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195931_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195959_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195959_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_2021122T195959_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_20011122T195959_0001 CG_OFFL_SIR_NOPM_2_2021122T195979_20011122T195959_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_20011122T195959_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_20011122T195959_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_20011122T195959_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_20011122T195959_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_20011122T195959_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_20011122T195979_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_20011122T195979_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_0001 CG_OFFL_SIR_NOPM_2_20211122T1150799_0001 CG_OFFL_SIR_NOPM_2_20211122T195979_0001 CG_OFFL_SI	CS_OFFL_SIR_NOPM_2_20211122T083639_20211122T084426_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description of the control of the co	CS_OFFL_SIR_NOPM_2_20211122T090652_20211122T093934_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Cuality COCO Alternater Range and Backscatter Cuality Flags have been and backscatter Cuality Flags have been set for one or more records. C6_OFFL_SIR_NOPM_2_20211122T102710_2001 C6_OFFL_SIR_NOPM_2_20211122T102710_2001 C6_OFFL_SIR_NOPM_2_20211122T102710_2001 C6_OFFL_SIR_NOPM_2_20211122T102710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2002 C6_OFFL_SIR_NOPM_2_20211122T112710_2004 C6_OFFL_SIR_NOPM_2_20211122T112710_200	CS_OFFL_SIR_NOPM_2_20211122T094708_20211122T095230_C001		
and the COGA Affirmeter Range and Backscaster Oually Flags have been self to come and the COGA Affirmeter Range and Backscaster Oually Flags have been self to come and the COGA Affirmeter Range and Backscaster Oually Flags have been self to come and the COGA Affirmeter Range and Backscaster Oually Flags have been self to come and the COGA Affirmeter Range and Backscaster Oually Flags have been self to come and the COGA Affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oually Flags have been self to come affirmeter Range and Backscaster Oua	CS_OFFL_SIR_NOPM_2_20211122T095705_20211122T095847_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Caulity CS_OFFL_SIR_NOPM_2_20211122T100006_20211122T10400_0001 CS_OFFL_SIR_NOPM_2_20211122T104006_20211122T10513_0001 CS_OFFL_SIR_NOPM_2_20211122T104006_20211122T10513_0001 CS_OFFL_SIR_NOPM_2_20211122T104006_20211122T10513_0001 CS_OFFL_SIR_NOPM_2_20211122T104006_20211122T10513_0001 CS_OFFL_SIR_NOPM_2_20211122T104006_20211122T110513_0001 CS_OFFL_SIR_NOPM_2_20211122T104006_20211122T110513_0001 CS_OFFL_SIR_NOPM_2_20211122T104006_20211122T1105000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20211122T095904_20211122T100025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited Flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited Flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and the COCG Altimeter Range and Backscatter Quality Flags have been exhibited flags and th	CS_OFFL_SIR_NOPM_2_20211122T102707_20211122T102713_C001		
and Backscatter Quality, COGA Allimeter Range and Backscatter Quality Flags have been all comments of the COGA Allimeter Range and Backscatter Quality Flags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality Flags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags and Backscatter Quality. COGA Allimeter Range and Backscatter Quality. Plags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T130611_20211122T130611_C001 CS_OFFL_SIR_NOPM_2_20211122T130631_20211122T130641_C001 CS_OFFL_SIR_NOPM_2_20211122T130631_20211122T140545_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T140545_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14055_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14055_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C001 CS_OFFL_SIR_NOPM_2_20211122T144507_20211122T140505_C0	CS_OFFL_SIR_NOPM_2_20211122T103026_20211122T103408_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality of to from or records. CS_OFFL_SIR_NOPM_2_20211122T112718_20211122T113124_C001 CS_OFFL_SIR_NOPM_2_20211122T113704_20211122T11429_C001 CS_OFFL_SIR_NOPM_2_20211122T113704_20211122T11429_C001 CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T11429_C001 CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T11429_C001 CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T115808_C001 CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T125808_C001 CS_OFFL_SIR_NOPM_2_20211122T130031_20211122T130045_C001 CS_OFFL_SIR_NOPM_2_20211122T130031_20211122T130045_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T14004_20211122T14550_C001 CS_OFFL_SIR_NOPM_2_20211122T14000_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T14550_C001	CS_OFFL_SIR_NOPM_2_20211122T104606_20211122T105513_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20211122T114074_20211122T114629_C001 CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T114629_C001 CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T115417_C001 CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T115417_C001 CS_OFFL_SIR_NOPM_2_20211122T12432_20211122T125608_C001 CS_OFFL_SIR_NOPM_2_20211122T130811_20211122T130846_C001 CS_OFFL_SIR_NOPM_2_20211122T1403646_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140046_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140046_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140046_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140046_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140046_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140046_20211122T14555_C001 CCS_OFFL_SIR_NOPM_2_20211122T142147_20211122T14555_C001 CCS_OFFL_SIR_NOPM_2_20211122T142147_20211122T14550_C001 CCS_OFFL_SIR_NOPM_2_20211122T142506_20211122T14550_C001 CCCG_Altimeter Range_Cuality, COCG_Altimeter Range_Albackscatter Quality Flags have been set for one or more records. CCCG_Altimeter Range_Altimeter Range_SSHA_SWH and Backscatter Quality Flags have been set for one or more records. CCCG_Altimeter Range_Altimeter Range_Altimete	CS_OFFL_SIR_NOPM_2_20211122T105758_20211122T111926_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been at liter to rone or more records. CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T115417_CO01 CS_OFFL_SIR_NOPM_2_20211122T125808_CO01 CS_OFFL_SIR_NOPM_2_20211122T125808_CO01 CS_OFFL_SIR_NOPM_2_20211122T125808_CO01 CS_OFFL_SIR_NOPM_2_20211122T130111_20211122T130611_CO01 CS_OFFL_SIR_NOPM_2_20211122T130111_20211122T130611_CO01 CS_OFFL_SIR_NOPM_2_20211122T1300831_20211122T130945_CO01 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T143752_CO01 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T143752_CO01 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_CO01 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T144510_CO01 CS_OFFL_SIR_NOPM_2_20211122T1444547_20211122T144510_CO01 CS_OFFL_SIR_NOPM_2_20211122T1444547_20211122T144510_CO01 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T144555_CO01 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144555_CO01 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_CO01 CS_OFFL_SIR_NOPM_2_20211122T145	CS_OFFL_SIR_NOPM_2_20211122T112718_20211122T113124_C001		
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T12432_20211122T125808_CO01 CS_OFFL_SIR_NOPM_2_20211122T130611_20211122T130611_CO01 CS_OFFL_SIR_NOPM_2_20211122T130611_20211122T130611_CO01 CS_OFFL_SIR_NOPM_2_20211122T130631_20211122T130945_CO01 CS_OFFL_SIR_NOPM_2_20211122T130631_20211122T130945_CO01 CS_OFFL_SIR_NOPM_2_20211122T14064_20211122T141555_CO01 CS_OFFL_SIR_NOPM_2_20211122T14064_20211122T147752_CO01 CS_OFFL_SIR_NOPM_2_20211122T14004_20211122T147752_CO01 CS_OFFL_SIR_NOPM_2_20211122T14274_20211122T147752_CO01 CS_OFFL_SIR_NOPM_2_20211122T144574_20211122T144510_CO01 CS_OFFL_SIR_NOPM_2_202111122T144574_20211122T144510_CO01 CS_OFFL_SIR_NOPM	CS_OFFL_SIR_NOPM_2_20211122T113704_20211122T114629_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T130611_2011122T130611_C001 CS_OFFL_SIR_NOPM_2_20211122T130631_20211122T130945_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T14555_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144502_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T1445457_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T1	CS_OFFL_SIR_NOPM_2_20211122T114817_20211122T115417_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20211122T130631_20211122T130945_C001 Backscatter Quality Coean Altimeter Range Quality, OCOG altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T141555_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144000_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T1445501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CCOEAN Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOGA Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CCOEAN 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_20211122T144547_20211122T150852_C001 CCOEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCOEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCOEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCOEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCOEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20211122T122432_20211122T125808_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T141555_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T141555_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_C001 CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_C001 CS_OFFL_SIR_NOPM_2_20211122T144000_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T144501_20211122T150852_C001 CCGA Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGA Flimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags h	CS_OFFL_SIR_NOPM_2_20211122T130111_20211122T130611_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range 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_20211122T142147_20211122T143752_C001 CS_OFFL_SIR_NOPM_2_20211122T144000_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144000_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T151106_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T151106_20211122T15777_C001 CCean Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCEAN Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCEAN Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCEAN Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20211122T130631_20211122T130945_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20211122T144000_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144510_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T151106_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T151106_20211122T152717_C001	CS_OFFL_SIR_NOPM_2_20211122T140346_20211122T141555_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CS_OFFL_SIR_NOPM_2_20211122T151106_20211122T152717_C001 Backscatter Quality SC_OCA Altimeter Range Quality, OCOG Backscatter Quality Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 CC_OCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CC_OCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20211122T142147_20211122T143752_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Source Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Ba	CS_OFFL_SIR_NOPM_2_20211122T144000_20211122T144510_C001		
CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20211122T144547_20211122T144717_C001		
CS_OFFL_SIR_NOPM_2_20211122T151106_20211122T152717_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20211122T145501_20211122T150852_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20211122T151106_20211122T152717_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20211122T154531_20211122T154556_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_20211122T154558_20211122T154825_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_20211122T155039_20211122T160056_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_20211122T160236_20211122T161620_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_20211122T161922_20211122T162422_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_20211122T162502_20211122T162603_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_20211122T163258_20211122T163435_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_20211122T163634_20211122T164711_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_20211122T164911_20211122T165445_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_20211122T165729_20211122T170518_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_20211122T172240_20211122T172242_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_20211122T173336_20211122T175454_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_20211122T180401_20211122T180701_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_20211122T181053_20211122T183842_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_20211122T191105_20211122T193420_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_20211122T193742_20211122T194254_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_20211122T194301_20211122T194628_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_20211122T195039_20211122T202325_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_20211122T204603_20211122T210415_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_20211122T210934_20211122T211323_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_20211122T211743_20211122T212329_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_20211122T212347_20211122T212530_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_20211122T213109_20211122T220307_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_20211122T221610_20211122T221714_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_20211122T223829_20211122T224024_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_20211122T224048_20211122T225137_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_20211122T225712_20211122T230222_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_20211122T230917_20211122T233036_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_20211122T233223_20211122T234446_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_20211122T235434_20211122T235646_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_20211122T090337_20211122T090652_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_20211122T112712_20211122T112717_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_20211122T140002_20211122T140114_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Dwadust	Toot Foiled	Description
Product CS_OFFL_SIR_NOPN_2_20211122T004822_20211122T004900_C001	Test Failed 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_20211122T013157_20211122T013822_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_20211122T022242_20211122T022403_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_20211122T022659_20211122T022847_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_20211122T030246_20211122T030857_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_20211122T031611_20211122T031746_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_20211122T040201_20211122T040305_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_20211122T052152_20211122T052516_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_20211122T052615_20211122T052717_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_20211122T054115_20211122T054613_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_20211122T062433_20211122T062552_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_20211122T063332_20211122T063554_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_20211122T080553_20211122T080759_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_20211122T085517_20211122T085528_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_20211122T090337_20211122T090652_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_20211122T094350_20211122T094708_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_20211122T102930_20211122T103026_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_20211122T104245_20211122T104556_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_20211122T112243_20211122T112602_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_20211122T113125_20211122T113249_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_20211122T130946_20211122T131120_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_20211122T135304_20211122T135404_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_20211122T143821_20211122T144000_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_20211122T144718_20211122T144925_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_20211122T152717_20211122T152923_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_20211122T161735_20211122T161921_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_20211122T163436_20211122T163634_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_20211122T164712_20211122T164911_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_20211122T170739_20211122T171147_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_20211122T172805_20211122T173000_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_20211122T175701_20211122T175959_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_20211122T190900_20211122T191007_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_20211122T223253_20211122T223437_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_20211122T004901_20211122T005621_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_20211122T012030_20211122T012728_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_20211122T031746_20211122T031817_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_20211122T044257_20211122T044458_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_20211122T054614_20211122T054826_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_20211122T055400_20211122T055621_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_20211122T063555_20211122T063809_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_20211122T071223_20211122T071412_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_20211122T071629_20211122T072137_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_20211122T075959_20211122T080359_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_20211122T084546_20211122T084624_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_20211122T085003_20211122T085120_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_20211122T085404_20211122T085517_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_20211122T085528_20211122T090336_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_20211122T093934_20211122T094350_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_20211122T095349_20211122T095704_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_20211122T102714_20211122T102911_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_20211122T103408_20211122T104244_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_20211122T111927_20211122T112242_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_20211122T113249_20211122T113703_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_20211122T121504_20211122T122214_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_20211122T131120_20211122T131446_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_20211122T144925_20211122T145501_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_20211122T150852_20211122T151105_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_20211122T153320_20211122T154009_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_20211122T162422_20211122T162428_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_20211122T171147_20211122T171709_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_20211122T180904_20211122T181053_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_20211122T185011_20211122T190008_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_20211122T194754_20211122T194930_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_20211122T194930_20211122T195039_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_20211122T202723_20211122T203458_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_20211122T211324_20211122T211617_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_20211122T212644_20211122T213108_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_20211122T225138_20211122T225546_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_20211122T230526_20211122T230916_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors:

177

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

Number of products with errors:

66

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:

124

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	181	181	6	175	0
SIR_NOPR1B	91	91	0	91	0
SIR_NOPN1B	93	93	4	89	0
SIR_NOPM_2	181	181	124	57	0
SIR_NOPR_2	91	91	22	69	0
SIR NOPN 2	93	93	36	57	0

7.1 QCC Errors

Number of QCC reports with errors:

0

7.2 QCC Warnings

Number of QCC reports with warnings

1719

Total number of occurrences of each warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_NOPM1B	175	0	0	0	0	0	0
SIR_NOPM_2	0	39	43	0	46	0	36
SIR_NOPN1B	85	0	0	0	0	0	0
SIR_NOPN_2	0	10	31	6	26	24	20
SIR_NOPR1B	87	0	0	0	0	0	0
SIR NOPR 2	0	36	44	1	27	20	11

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	2	0	36	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	22	1	0	0	28	0	32
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	18	3	0	43	0	52	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	0	0	3	27	0	5
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	28	15	42	45	29
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	44	0	1	58	32	8

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1B	0	0	0	1	0	0	0
SIR_NOPM_2	38	0	3	1	0	0	0
SIR_NOPN1B	0	0	0	2	0	41	0
SIR_NOPN_2	29	23	13	0	1	0	0
SIR_NOPR1B	0	0	0	0	0	91	4
SIR_NOPR_2	45	49	4	0	1	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
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	Missing Value Int Ocean Net CDF	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 signa 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
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean - NetCDF
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMN CDF	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		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF		Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0