

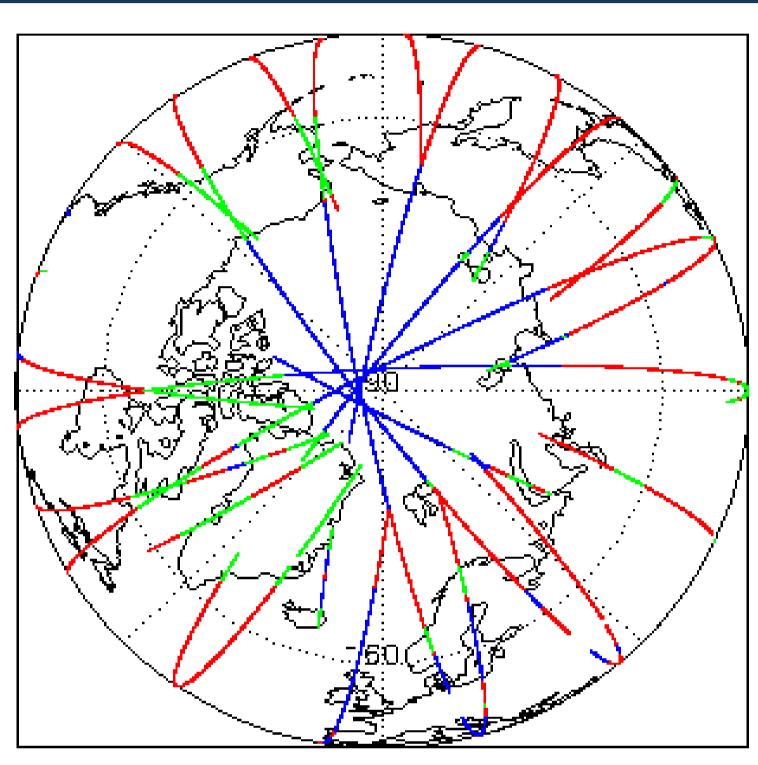
1. Overview

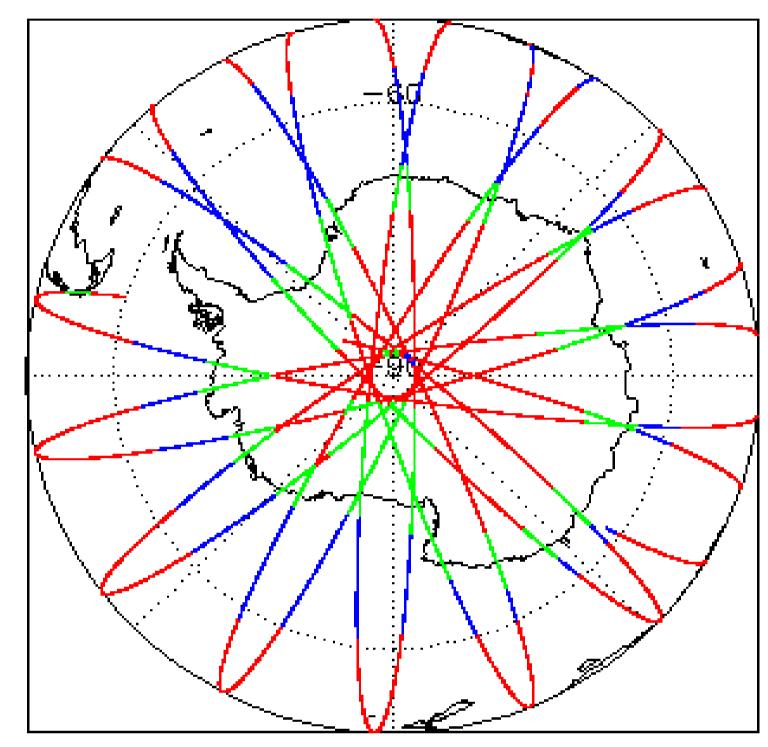
Report Production:	05-Oct-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

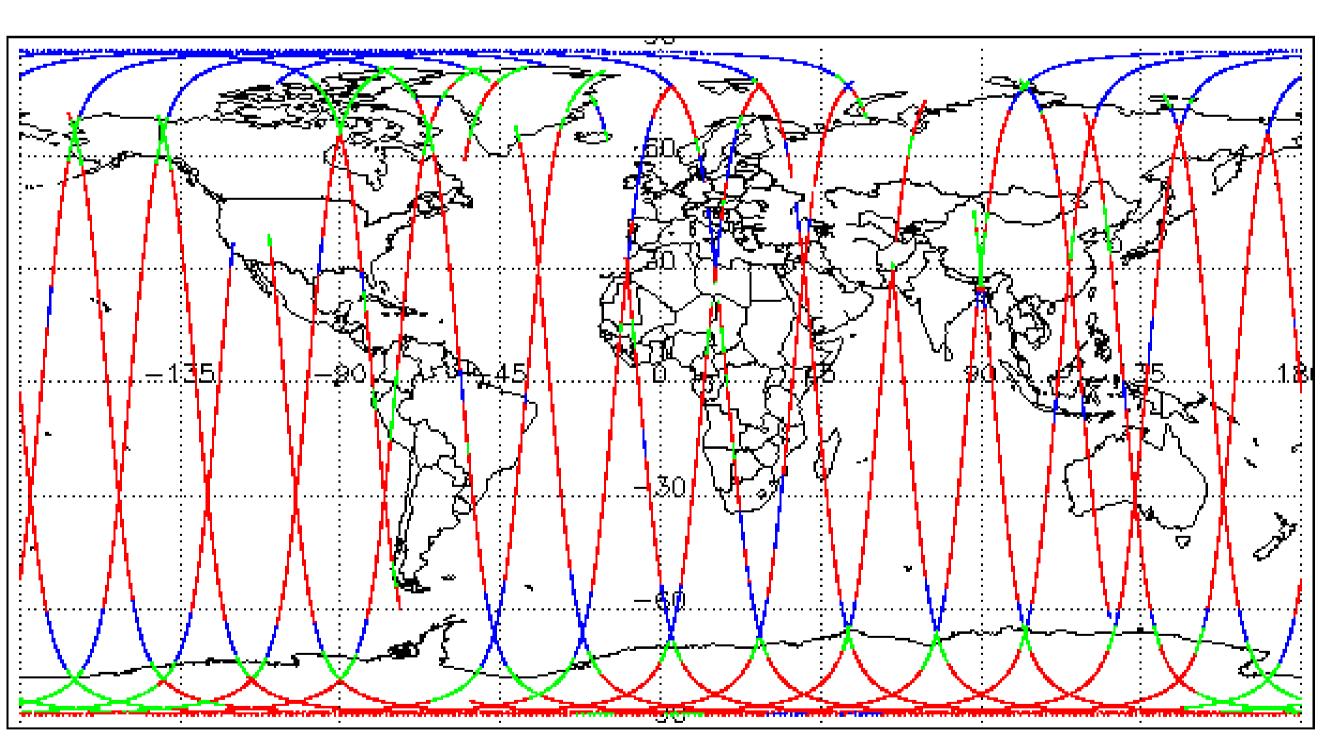
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

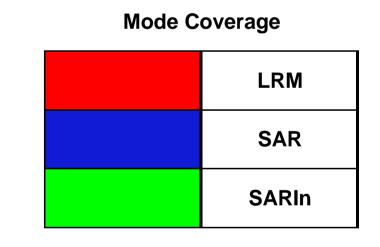
Mission / Inst	Mission / Instrument News		
01-Oct-2020	None		
02-Oct-2020	None		
03-Oct-2020	Nothing planned		

2. Global Coverage









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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:

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:

3

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20201002T003237_20201002T003653_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20201002T115247_20201002T120846_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20201002T154323_20201002T154932_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

18

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20201002T005004_20201002T010414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201002T104313_20201002T105737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201002T115247_20201002T120846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201002T133910_20201002T134923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201002T181300_20201002T184452_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201002T054647_20201002T054830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201002T121245_20201002T121500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201002T131622_20201002T131803_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201002T221407_20201002T221711_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201002T235556_20201002T235826_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T001429_20201002T001608_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T035811_20201002T040320_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T052607_20201002T052807_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T081430_20201002T081835_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T085645_20201002T090443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T124303_20201002T124417_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T162936_20201002T163206_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201002T211301_20201002T211751_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.

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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.

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

Number of products with errors: 39 Product	Test Failed	Description
1 TOGUCE	1 CSt T diled	
CS_OFFL_SIR_NOPM_2_20201002T005004_20201002T010414_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_20201002T022753_20201002T023537_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_NOPM_2_20201002T053236_20201002T053656_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_20201002T133910_20201002T134923_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_NOPM_2_20201002T153927_20201002T154208_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_20201002T004343_20201002T004449_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_20201002T013655_20201002T013843_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_20201002T022257_20201002T022753_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_20201002T044731_20201002T044940_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_20201002T062532_20201002T062849_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_20201002T063410_20201002T063529_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_20201002T080422_20201002T080742_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_20201002T081305_20201002T081430_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_20201002T095122_20201002T095258_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_20201002T103446_20201002T103545_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_20201002T112002_20201002T112142_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_20201002T112857_20201002T113106_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_20201002T121245_20201002T121500_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_20201002T134923_20201002T135327_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_20201002T144845_20201002T145046_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_20201002T193727_20201002T193853_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_20201002T194403_20201002T194707_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20201002T211751_20201002T212050_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_20201002T212306_20201002T212825_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_20201002T221407_20201002T221711_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_20201002T225744_20201002T230018_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_20201002T235300_20201002T235414_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_20201002T235556_20201002T235826_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20201002T003701_20201002T003846_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20201002T035811_20201002T040320_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_20201002T052607_20201002T052807_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_20201002T053711_20201002T054517_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_20201002T071558_20201002T072421_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_20201002T085645_20201002T090443_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_20201002T103545_20201002T104129_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_20201002T121501_20201002T122155_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_20201002T135327_20201002T135849_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_20201002T172727_20201002T172808_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_20201002T203827_20201002T204553_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20201002T003237_20201002T003653_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_20201002T115247_20201002T120846_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_20201002T154323_20201002T154932_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20201002T000029_20201002T001429_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_20201002T001608_20201002T003233_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_20201002T004449_20201002T004520_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_20201002T005004_20201002T010414_C001	1	The Ocean Altimeter Range, SSHA, SWH 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_20201002T010424_20201002T010427_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_20201002T011047_20201002T012406_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_20201002T012830_20201002T013655_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_20201002T014024_20201002T020158_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_20201002T023757_20201002T030350_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_20201002T032122_20201002T034402_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_20201002T035630_20201002T035710_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_20201002T041648_20201002T044213_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_20201002T044940_20201002T045537_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_20201002T045902_20201002T052547_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_20201002T053236_20201002T053656_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_20201002T054830_20201002T062103_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_20201002T062849_20201002T063410_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_20201002T064045_20201002T064206_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_20201002T064453_20201002T064843_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_20201002T070850_20201002T070854_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_20201002T071201_20201002T071557_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_20201002T072736_20201002T073654_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_20201002T073939_20201002T080059_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_20201002T080858_20201002T081305_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_20201002T081835_20201002T082810_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_20201002T082958_20201002T083601_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_20201002T090443_20201002T093930_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_20201002T094250_20201002T094751_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201002T094812_20201002T095122_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_20201002T095851_20201002T103016_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_20201002T104313_20201002T105737_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_20201002T110054_20201002T110310_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.

Color Septimber Appropriate Appropri	CS_OFFL_SIR_NOPM_2_20201002T110315_20201002T111858_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.
### Reduction County Security	CS_OFFL_SIR_NOPM_2_20201002T112142_20201002T112650_C001	•	
Set 19.00P1_2_300000071 Set_2_000* (IDT119264_COC) CIL_CPT_LSR_AOP2_2_30000071 Set_2_	CS_OFFL_SIR_NOPM_2_20201002T112728_20201002T112857_C001		
Set Set No. 19 2 (2007 CC211 10342 (2007 CC211 20342), 2007 CC211 20342), 2007 CC211 20342, 20	CS_OFFL_SIR_NOPM_2_20201002T113637_20201002T114649_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Disport _ SIR_NOPW_2_0201002T12018_C0001002T10002_C000 Control (Silland Program State Control	CS_OFFL_SIR_NOPM_2_20201002T115247_20201002T120846_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CRIST SIR NORM 2 200010071-24292 2020-0007114545 DOIS CRIST SIR NORM 2 200010071-24297 2020-0007114545 DOIS CRIST SIR NORM 2 200010071-20102 2020-0007114545 DOIS CRIST SIR NORM 2 200010071-20104 2020-0007114545 DOIS CRIST SIR NO	CS_OFFL_SIR_NOPM_2_20201002T121121_20201002T121232_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_NORM_2_2001002T169102_2000102T199002_0001 CS_OFF_SIR_NORM_2_2001002T190102_2000102T199002_0001 CS_OFF_SIR_NORM_2_2001002T190102_2000102T199002_0001 CS_OFF_SIR_NORM_2_2001002T190102_2000102T190002_0001 CS_OFF_SIR_NORM_2_2001002T190102_2000102T190002_0001 CS_OFF_SIR_NORM_2_2001002T190102_2000102T190102_0001 CS_OFF_SIR_NORM_2_2001002T190102_2000102T190102_0001 CS_OFF_SIR_NORM_2_2001002T190102_2000102T190102_0001 CS_OFF_SIR_NORM_2_2001002T190102_0001 CS_OFF_SIR_NORM_2_20001002T190102_0001 CS_OFF_SIR_NOR	CS_OFFL_SIR_NOPM_2_20201002T123222_20201002T124238_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
26. OFFL SIR NOPM 2 20001027131450 22001027131450 20010027131550 COD A Transfer Range Coulty Cod Attracts Range and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range, SSI N. SWI and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range and Busbassate Quality Rage have been set for one or more records. Oscient Attracts Range Quality Quality Quality Rage have been set for one or more records. Oscient Range Range Quality Quality Rage have been set for one or more records. Oscient Range Range Quality Quality Rage have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20201002T124417_20201002T125743_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Egy CFFL_SIR_NOPM_2_20201027114492_20201027115024_C001 CS_OFFL_SIR_NOPM_2_2020102713903_20201027132913_C001 CS_OFFL_SIR_NOPM_2_2020102713903_20201027132913_C001 CS_OFFL_SIR_NOPM_2_2020102713903_20201027132913_C001 CS_OFFL_SIR_NOPM_2_2020102713903_20201027132913_C001 CS_OFFL_SIR_NOPM_2_2020102713903_20201027132913_C001 CS_OFFL_SIR_NOPM_2_2020102713903_2020102713903_C001 CS_OFFL_SIR_NOPM_2_2020102713903_2020102713903_C001 CS_OFFL_SIR_NOPM_2_2020102713903_2020102713903_C001 CS_OFFL_SIR_NOPM_2_2020102713903_2020102713903_C001 CS_OFFL_SIR_NOPM_2_2020102714903_C00102714903_C001 CS_OFFL_SIR_NOPM_2_2020102714903_C00102714903_C001 CS_OFFL_SIR_NOPM_2_2020102714903_C00102714903_C001 CS_OFFL_SIR_NOPM_2_2020102714903_C00102714903_C001 CS_OFFL_SIR_NOPM_2_2020102714903_C00102714903_C001 CS_OFFL_SIR_NOPM_2_2020102714903_C001027144000_C0010271440	CS_OFFL_SIR_NOPM_2_20201002T130102_20201002T130602_C001		
and decadostration Quality, COCO Altimater Range and Edecadostration Quality Plags have been after the COCO Altimater Range and Edecadostration Quality Plags have been after the COCO Altimater Range and Edecadostration Quality Plags have been after the COCO Altimater Range and Edecadostration Quality Plags have been after the COCO Altimater Range and Edecadostration Quality Plags have been and Edecadostration Quali	CS_OFFL_SIR_NOPM_2_20201002T130642_20201002T130744_C001		
and flandscatter Quality, CODG Allmeter Range and Backscatter Quality Flags rave been adherent Range and Backscatter Quality Flags are been adherent Range and Backscatter Quality Flags have been adherent Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR NOPM 2 20001002T144542 20201002T144945. C001 CS OFFL SIR NOPM 2 20001002T144542 20201002T14894. C001 CS OFFL SIR NOPM 2 20001002T14594 20201002T16804 C001 CS OFFL SIR NOPM 2 20001002T16504 20201002T16505 C001 CS OFFL SIR NOPM 2 20001002T1650	CS_OFFL_SIR_NOPM_2_20201002T131439_20201002T131622_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20201002T133910_20201002T134923_CO01 CS_OFFL_SIR_NOPM_2_20201002T133910_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144197_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144197_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144197_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T144542_20201002T144957_CO01 CS_OFFL_SIR_NOPM_2_20201002T145947_20201002T151839_CO01 CS_OFFL_SIR_NOPM_2_20201002T145947_20201002T151839_CO01 CS_OFFL_SIR_NOPM_2_20201002T16594_20201002T151839_CO01 CS_OFFL_SIR_NOPM_2_20201002T16594_20201002T16595_20201002T161594_CO01 CS_OFFL_SIR_NOPM_2_20201002T16594_20201002T16595_2	CS_OFFL_SIR_NOPM_2_20201002T131803_20201002T132913_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOS Alternoter Range and Backscatter Quality Flags have been and the OCOS Alternoter Range and Backscatter Quality Flags have been and the OCOS Alternoter Range and Backscatter Quality Flags and the OCOS Alternoter Range and Backscatter Quality Flags and the OCOS Alternoter Range and Backscatter Quality Flags and the OCOS Alternoter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T14462_C0011 CS_OFFL_SIR_NOPM_2_20201002T144542_20201002T144645_C0011 CS_OFFL_SIR_NOPM_2_20201002T145442_20201002T15839_C0011 CS_OFFL_SIR_NOPM_2_20201002T14544_20201002T15839_C0011 CS_OFFL_SIR_NOPM_2_20201002T15544_20201002T158504_C0011 CS_OFFL_SIR_NOPM_2_20201002T15544_20201002T155504_C0011 CS_OFFL_SIR_NOPM_2_20201002T15544_20201002T1655_C0011 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T1655_C0011 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T16520_C001 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T16520_C001 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T170512_C0011 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T170512_C0011 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T170512_C0011 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T170512_C0011 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T170512_C0011 CS_OFFL_SIR_NOPM_2_20201002T165208_20201002T170512_C0011 CS_OFFL_SIR_NOPM_2_20201002T170512_C0011 CS_OFFL_SIR_NOPM_2_20201002T170508_2001002T170012_C0011 CS_OFFL_SIR_NOPM_2_20201002T1700102T170012_C0011 C	CS_OFFL_SIR_NOPM_2_20201002T133045_20201002T133626_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 set for one or more records. CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144520_CO01 CS_OFFL_SIR_NOPM_2_20201002T144542_20201002T144545_CO01 CS_OFFL_SIR_NOPM_2_20201002T144542_20201002T144545_CO01 CS_OFFL_SIR_NOPM_2_20201002T144542_20201002T144545_CO01 CS_OFFL_SIR_NOPM_2_20201002T145247_20201002T14539_CO01 CS_OFFL_SIR_NOPM_2_20201002T155144_20201002T151539_CO01 CS_OFFL_SIR_NOPM_2_20201002T155204_CO01 CS_OFFL_SIR_NOPM_2_20201002T155204_CO01 CS_OFFL_SIR_NOPM_2_20201002T155204_CO01 CS_OFFL_SIR_NOPM_2_20201002T155209_20201002T161551_CO01 CS_OFFL_SIR_NOPM_2_20201002T15209_20201002T161551_CO01 CS_OFFL_SIR_NOPM_2_20201002T15209_20201002T162435_CO01 CS_OFFL_SIR_NOPM_2_20201002T153006_20201002T170512_CO01 CS_OFFL_SIR_NOPM_2_20201002T153006_20201002T170512_CO01 CS_OFFL_SIR_NOPM_2_20201002T170512_CO01 CS_OFFL_SIR_NOPM_2_20201002T170512_C	CS_OFFL_SIR_NOPM_2_20201002T133910_20201002T134923_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Society CS_OFFL_SIR_NOPM_2_20201002T144542_20201002T144845_C001 CS_OFFL_SIR_NOPM_2_20201002T145247_20201002T151839_C001 CS_OFFL_SIR_NOPM_2_20201002T145247_20201002T151839_C001 CS_OFFL_SIR_NOPM_2_20201002T155144_20201002T151839_C001 CS_OFFL_SIR_NOPM_2_20201002T155144_20201002T155204_C001 CS_OFFL_SIR_NOPM_2_20201002T155144_20201002T155204_C001 CS_OFFL_SIR_NOPM_2_20201002T155208_20201002T155164_20201002T161551_C001 CS_OFFL_SIR_NOPM_2_20201002T155208_20201002T161551_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T162435_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T176512_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T176512_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T176512_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T176512_C001 CS_OFFL_SIR_NOPM_2_20201002T1765208_20201002T176512_C001 CS_OFFL_SIR_NOPM_2_20201002T1765208_20201002T176512_C001 CS_OFFL_SIR_NOPM_2_20201002T1776512_C001 CS_OFFL_SIR_NOPM_2_20201002T1776504_C001 CS_OFFL_SIR_NOPM_2_20201002T1776504_C001 CS_OFFL_SIR_NOPM_2_20201002T1776504_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL_SIR_NOPM_2_20201002T177615_20201002T177604_C001 CS_OFFL	CS_OFFL_SIR_NOPM_2_20201002T141517_20201002T143557_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS OFFL SIR NOPM 2 20201002T145247 20201002T151839 C001 CS OFFL SIR NOPM 2 20201002T155144 20201002T155204 C001 CS OFFL SIR NOPM 2 20201002T155144 20201002T155204 C001 CS OFFL SIR NOPM 2 20201002T155144 20201002T155204 C001 CS OFFL SIR NOPM 2 20201002T155208 20201002T161551 C001 CS OFFL SIR NOPM 2 20201002T163208 20201002T162435 C001 CS OFFL SIR NOPM 2 20201002T163206 20201002T17512 C001 CS OFFL SIR NOPM 2 20201002T17746 20201002T17512 C001 CS OFFL SIR NOPM 2 20201002T17746 20201002T1774004 C001 CS OFFL SIR NOPM 2 20201002T177515 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T177515 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T177515 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T177608 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T177608 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T177608 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T17515 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T177608 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T17508 20201002T175004 C001 CS OFFL SIR NOPM 2 20201002T17505 20201002T175004	CS_OFFL_SIR_NOPM_2_20201002T144141_20201002T144520_C001		
S_OFFL_SIR_NOPM_2_20201002T155144_20201002T155204_C001 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_20201002T155144_20201002T155204_C001 CS_OFFL_SIR_NOPM_2_20201002T155208_20201002T161551_C001 CS_OFFL_SIR_NOPM_2_20201002T155208_20201002T161551_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T162435_C001 CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T162435_C001 CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T17512_C001 CS_OFFL_SIR_NOPM_2_20201002T17746_20201002T177453_C001 CS_OFFL_SIR_NOPM_2_20201002T17746_20201002T177453_C001 CS_OFFL_SIR_NOPM_2_20201002T17746_20201002T177453_C001 CS_OFFL_SIR_NOPM_2_20201002T17746_20201002T1774004_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20021002T177504_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20021002T177504_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20021002T177504_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20021002T177504_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177504_C001 CS_OFFL_SIR_NOPM_2_20201002T177515_20201002T177504_C001 CS_OFFL_SIR_NOPM_2_20201002T177504_C001 CS_OFFL_SIR_NOPM_2_20201002T17504_C001 CS_OFFL_S	CS_OFFL_SIR_NOPM_2_20201002T144542_20201002T144845_C001		
Backscatter Quality CS_OFFL_SIR_NOPM_2_20201002T155208_20201002T161551_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20201002T155208_20201002T161551_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T161551_C001 CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T162435_C001 CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T170512_C001 CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T170512_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T1724004_C001 CS_OFFL_SIR_NOPM_2_20201002T1717515_20201002T175004_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175004_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175004_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175004_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175004_C001 CS_OFFL_SIR_NOPM_2_20201002T175006_C001	CS_OFFL_SIR_NOPM_2_20201002T145247_20201002T151839_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T162435_C001 CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T170512_C001 CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T170512_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T170512_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T174004_C001 CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001 CS_OFFL_SIR_NOPM_2_20201002T175504_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175504_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175504_C001 CS_OFFL_SIR_NOPM_2_20201002T175504_C001 CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_NOPM_2_20201002T155144_20201002T155204_C001		
Backscatter Quality CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T170512_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T170512_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T17504_C001 CS_O	CS_OFFL_SIR_NOPM_2_20201002T155208_20201002T161551_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001 CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T17504_C001 CS_OFFL_SIR_NOPM_2_20201002T17504_C001	CS_OFFL_SIR_NOPM_2_20201002T161924_20201002T162435_C001		
CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001 CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T17504_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T17504_C001 CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T17504_C001 CS_OFFL_SIR_NOPM_2_20201002T175925_20201002T17504_C001 CS_OFFL_SIR_NOPM_2_20201002T175925_20201002T175925_20201002T180509_C001 CS_OFFL_SIR_NOPM_2_20201002T175925_20201002T180509_C001 CS_OFFL_SIR_NOPM_2_20201002T175925_20201002T180509_C001 CS_OFFL_SIR_NOPM_2_20201002T175925_20201002T180509_C001 CS_OFFL_SIR_NOPM_2_20201002T175925_20201002T180509_C001	CS_OFFL_SIR_NOPM_2_20201002T163206_20201002T170512_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean 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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20201002T171746_20201002T172453_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175504_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altim	CS_OFFL_SIR_NOPM_2_20201002T172808_20201002T174004_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US DEEL SIR NOPM / 202010021175925 202010021180509 C001	CS_OFFL_SIR_NOPM_2_20201002T175115_20201002T175504_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20201002T175925_20201002T180509_C001		

CS_OFFL_SIR_NOPM_2_20201002T181300_20201002T184452_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_20201002T184805_20201002T184837_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_20201002T185636_20201002T185857_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_20201002T191619_20201002T193322_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_20201002T193853_20201002T194403_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_20201002T195114_20201002T201217_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_20201002T201241_20201002T202631_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_20201002T203603_20201002T203827_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_20201002T205406_20201002T211301_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_20201002T212050_20201002T212306_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_20201002T213044_20201002T220444_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_20201002T221822_20201002T223750_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_20201002T223945_20201002T225127_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_20201002T230349_20201002T230718_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_20201002T230954_20201002T232439_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_20201002T232642_20201002T233604_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_20201002T235826_20201003T001525_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_20201002T022257_20201002T022753_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_20201002T063958_20201002T064045_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_20201002T225127_20201002T225744_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20201002T010600_20201002T011027_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_20201002T020332_20201002T020719_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_20201002T022257_20201002T022753_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.

CS_OFFL_SIR_NOPN_2_20201002T034403_20201002T034426_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_20201002T045538_20201002T045707_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_20201002T054647_20201002T054830_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_20201002T063410_20201002T063529_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_20201002T065355_20201002T065441_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_20201002T071103_20201002T071201_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20201002T072429_20201002T072736_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_20201002T081305_20201002T081430_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_20201002T083601_20201002T083757_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_20201002T085109_20201002T085147_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_20201002T085345_20201002T085422_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_20201002T094056_20201002T094250_C001	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_20201002T095122_20201002T095258_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_20201002T112002_20201002T112142_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_20201002T114649_20201002T114733_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_20201002T120846_20201002T121121_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_20201002T123030_20201002T123222_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_20201002T131622_20201002T131803_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_20201002T132914_20201002T133033_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_20201002T134923_20201002T135327_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_20201002T135850_20201002T135918_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_20201002T140948_20201002T141338_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_20201002T143857_20201002T144141_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_20201002T144845_20201002T145046_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_20201002T170512_20201002T170835_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_20201002T180711_20201002T180825_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_20201002T185858_20201002T185949_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_20201002T191434_20201002T191618_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_20201002T194403_20201002T194707_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_20201002T205325_20201002T205406_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_20201002T221407_20201002T221711_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_20201002T233604_20201002T233937_C001	1 · · · · · · · · · · · · · · · ·	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20201002T003653_20201002T003656_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_20201002T003701_20201002T003846_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_20201002T023538_20201002T023757_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_20201002T031728_20201002T032020_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_20201002T035811_20201002T040320_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_20201002T041507_20201002T041534_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_20201002T052607_20201002T052807_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_20201002T053711_20201002T054517_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_20201002T062103_20201002T062532_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_20201002T063529_20201002T063927_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_20201002T070251_20201002T070651_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_20201002T070854_20201002T071044_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_20201002T071558_20201002T072421_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_20201002T081430_20201002T081835_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_20201002T085645_20201002T090443_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_20201002T095258_20201002T095429_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_20201002T095429_20201002T095851_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_20201002T103545_20201002T104129_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_20201002T115033_20201002T115104_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_20201002T115107_20201002T115247_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_20201002T121232_20201002T121245_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_20201002T121501_20201002T122155_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_20201002T133749_20201002T133910_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_20201002T135327_20201002T135849_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_20201002T143558_20201002T143857_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_20201002T162936_20201002T163206_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_20201002T180825_20201002T181300_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_20201002T190010_20201002T190338_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_20201002T190635_20201002T190956_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_20201002T193322_20201002T193727_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_20201002T194707_20201002T195114_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_20201002T203827_20201002T204553_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_20201002T204710_20201002T204841_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_20201002T211301_20201002T211751_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_20201002T212825_20201002T213044_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_20201002T220631_20201002T220734_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_20201002T223750_20201002T223822_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_20201002T225127_20201002T225744_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_20201002T232440_20201002T232642_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 161

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 52

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.

7. NOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	143	143	3	140	0
SIR_NOPR1B	84	84	0	84	0
SIR_NOPN1B	98	98	3	95	0
SIR_NOPM_2	143	143	91	52	0
SIR_NOPR_2	84	84	25	59	0
SIR_NOPN_2	98	98	41	57	0

7.1 QCC Errors

Number of QCC reports with errors:

0

7.2 QCC Warnings

Number of QCC reports with warnings

1620

Total number of occurrences of each warning

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Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_NOPM1B	140	0	0	0	0	0	0
SIR_NOPM_2	0	39	39	1	45	0	36
SIR_NOPN1B	93	0	0	0	0	0	0
SIR_NOPN_2	0	9	27	5	23	28	16
SIR_NOPR1B	81	0	0	0	0	0	0
SIR NOPR 2	0	40	42	1	37	34	23

Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	36	0	0	0	0	31	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	21	0	31	0	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	43	0	46	0	0	43

Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	7	31	0	5	37	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	24	19	40	45	29	23	24
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	2	54	29	4	39	43

Product Type	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-	-
SIR_NOPM1B	0	0	0	0			
SIR_NOPM_2	3	0	0	0			
SIR_NOPN1B	0	0	42	0			
SIR_NOPN_2	13	1	0	0			
SIR_NOPR1B	0	0	84	5			
SIR_NOPR_2	4	3	0	0			

Test Description Key:						
	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	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	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter				

7.3 Missing QCC Reports