

# 1. Overview

Report Production:	19-Jun-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

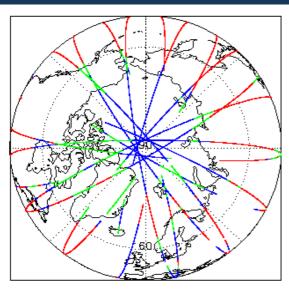
# We would love to hear from you!

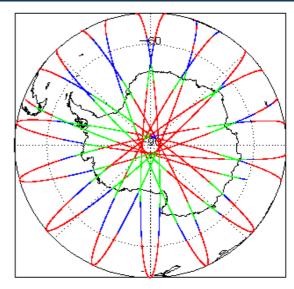
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

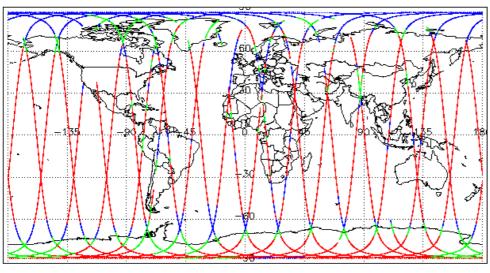
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

N	Mission / Instrument News		
	16-Jun-2023	None	
	17-Jun-2023	None	
	18-Jun-2023	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

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

# 4. NOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

#### 4.2 L1B Product Header Analysis

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

> L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B NOPR and NOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and 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:

Ο

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

^

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

 Product
 Test Failed
 Description

 CS\_OFFL\_SIR\_NOPM1B\_20230617T181445\_20230617T181610\_C001
 Power scaling error
 There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

22

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230617T043619_20230617T043716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230617T044414_20230617T044519_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230617T074855_20230617T075338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230617T095946_20230617T101319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230617T101517_20230617T103017_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230617T204140_20230617T211743_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230617T231316_20230617T232626_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230617T031429_20230617T031521_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230617T080203_20230617T080229_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230617T094549_20230617T094645_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230617T111947_20230617T112248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230617T112347_20230617T112601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230617T203410_20230617T203935_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230617T230404_20230617T230515_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T053247_20230617T053639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T062756_20230617T063548_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T071203_20230617T071448_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T144244_20230617T145237_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T162015_20230617T162657_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T180652_20230617T180724_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T1811114_20230617T181444_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T181715_20230617T182039_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230617T225941_20230617T230404_C001	Loss of Echo	The tracking echo is missing for one or more records

#### 5. NOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

#### 5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

CS OFFL SIR NOPN 2 20230617T130029 20230617T130425 C001

- > 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.

er of products with errors: **Product Test Failed** Description Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS OFFL SIR NOPM 2 20230617T013853 20230617T013939 C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1) and the tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPM 2 20230617T043619 20230617T043716 C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPM\_2\_20230617T101326\_20230617T101352\_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPM 2 20230617T110352 20230617T111627 C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS OFFL SIR NOPM 2 20230617T163719 20230617T163804 C001 There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPM\_2\_20230617T181643\_20230617T181715\_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20230617T004801 20230617T004959 C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T013015\_20230617T013030\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20230617T013403 20230617T013853 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T030814\_20230617T030949\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20230617T031302 20230617T031358 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20230617T031429 20230617T031521 C001 Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T035819\_20230617T040044\_C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1) and the tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T053639\_20230617T053952\_C001 Topography (1) Topography height (solution 1) for one or more records CS OFFL SIR NOPN 2 20230617T062754 20230617T062756 C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20230617T071448 20230617T071838 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T072409\_20230617T072534\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Dynamic Topography (1), Total There is an error with the Mean Dynamic Topography (solution 1) and the CS OFFL SIR NOPN 2 20230617T080425 20230617T080507 C001 Total Geocentric Ocean Tide (solution 1: GOT) for one or more records Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T090207\_20230617T090349\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T094549\_20230617T094645\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20230617T103106 20230617T103248 C001 Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20230617T103957\_20230617T104212\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20230617T111947\_20230617T112248\_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean CS\_OFFL\_SIR\_NOPN\_2\_20230617T112347\_20230617T112601\_C001 Topography height (solution 1) and the Total Geocentric Ocean Tide Tide (GOT) height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20230617T121014\_20230617T121204\_C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20230617T121850 20230617T122338 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic

Topography (1)

Topography height (solution 1) for one or more records

CS_OFFL_SIR_NOPN_2_20230617T130438_20230617T130548_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_20230617T140004_20230617T140156_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_20230617T181007_20230617T1811111_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_20230617T184830_20230617T184956_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_20230617T185506_20230617T185813_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20230617T202913_20230617T203203_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_20230617T203410_20230617T203935_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_20230617T212504_20230617T212838_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_20230617T220725_20230617T221120_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_20230617T225708_20230617T225844_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_20230617T230404_20230617T230515_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_20230617T234052_20230617T234228_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_20230617T234559_20230617T234935_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_20230617T013030_20230617T013403_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_20230617T030950_20230617T031302_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_20230617T031358_20230617T031429_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_20230617T043716_20230617T043918_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_20230617T044816_20230617T045612_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_20230617T061935_20230617T062118_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_20230617T062636_20230617T062753_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_20230617T062756_20230617T063548_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_20230617T080747_20230617T081137_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_20230617T081137_20230617T081536_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_20230617T094646_20230617T095227_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_20230617T095241_20230617T095404_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_20230617T112601_20230617T112605_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_20230617T112605_20230617T113130_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_20230617T125719_20230617T125959_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_NOPR_2_20230617T130425_20230617T130438_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_20230617T130548_20230617T130945_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_20230617T144244_20230617T145237_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_20230617T162015_20230617T162657_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_20230617T163804_20230617T163906_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_20230617T194928_20230617T195942_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_20230617T225844_20230617T225940_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_20230617T225941_20230617T230404_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230617T181445_20230617T181610_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230617T000443_20230617T000717_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_20230617T001237_20230617T001532_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_20230617T001701_20230617T001703_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_20230617T002047_20230617T003547_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_20230617T003926_20230617T004801_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_20230617T005053_20230617T011303_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_20230617T015203_20230617T021505_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_20230617T022125_20230617T022603_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_20230617T023035_20230617T023307_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_20230617T023428_20230617T025837_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_20230617T032750_20230617T035335_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_20230617T040857_20230617T042958_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_20230617T043000_20230617T043243_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_20230617T044534_20230617T044644_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_20230617T045914_20230617T053247_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

DOCK Affertier Flagor callary CODE  DOCK (Filt - Sin A COPIL 2 SECONT TITROSE) (2008) (1700 CAP)  DOCK (Filt - Sin A COPIL 2			
Comparison   Com	CS_OFFL_SIR_NOPM_2_20230617T053952_20230617T054510_C001		
De CHEL SIR NOPPLE 2 20238171702826 20200171872839 COD  American Program of Based States (1994) SMN (1994) The Code States (1994) SMN (1994) T	CS_OFFL_SIR_NOPM_2_20230617T055149_20230617T055337_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Section	CS_OFFL_SIR_NOPM_2_20230617T062245_20230617T062636_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
South Cell North 2, 20200171070201, 2020017107	CS_OFFL_SIR_NOPM_2_20230617T063708_20230617T071202_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and besident Chails, NOCHA 2, stitutes Frogram and Education Chails frog the best before Allering Frage and Backson Chails from the Second Chails of Chails and Backson Chails from the Second Chails from the Second Chails of Chails and Backson Chails from the Second Chail from the Second	CS_OFFL_SIR_NOPM_2_20230617T072002_20230617T072409_C001		
aid Basecuster Quality, COCQ Affords Pilling and Passecustric Quality CSQ_OFFL_SIR_NOPM_2_2023801710/4816_2023801710/3282_CD81  CS_OFFL_SIR_NOPM_2_2023801710/4816_2023801710/3282_CD81  CS_OFFL_SIR_NOPM_2_202380171089342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171089342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171089342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171080342_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_20238017109546_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_20238017109546_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_20238017109546_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_20238017109546_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_20238017109546_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_20238017109546_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_20238017109546_202380171080342_CD81  CS_OFFL_SIR_NOPM_2_202380171103540_202380171103342_CD81  CS_OFFL_SIR_NOPM_2_202380171103540_202380171103342_CD81  CS_OFFL_SIR_NOPM_2_202380171103540_202380171103342_CD81  CS_OFFL_SIR_NOPM_2_202380171103540_202380171114428_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_202380171104428_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_20238017110444_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_20238017110444_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_20238017110444_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_20238017110444_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_20238017110444_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_202380171104482_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_202380171104482_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_202380171104482_CD81  CS_OFFL_SIR_NOPM_2_202380171103640_20238017110440	CS_OFFL_SIR_NOPM_2_20230617T072834_20230617T073915_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFF_SR_NOPA_2_2023617109542_2023617109545 COOI  OSCIPATION NOPA_2_2023617109542_2023617109545 COOI  OSCIPATION NOPA_2_2023617109542_2023617109545 COOI  OSCIPATION NOPA_2_2023617109542_2023617109542 COOI  OSCIPATION NOPA_2_2023617109542_2023617109542 COOI  OSCIPATION NOPA_2_2023617109542_2023617109542 COOI  OSCIPATION NOPA_2_2023617109542 COOI  OSCIPATION NOPA_2_2023617109542 COOI  OSCIPATION NOPA_2_2023617109544_2023617109542 COOI  OSCIPATION NOPA_2_2023617109544_2023617109542 COOI  OSCIPATION NOPA_2_2023617109544_2023617109542 COOI  OSCIPATION NOPA_2_2023617109544_2023617109542 COOI  OSCIPATION NOPA_2_2023617109544_20236171109544_20236171109544_20236171109544_20236171109544_20236171109544_20236171109544_20236171109544_20236171109544_20236171109	CS_OFFL_SIR_NOPM_2_20230617T074103_20230617T074717_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality (1965) Attender Flange and Backscatter Quality Flags have been set to come or more records  CS_OFFL_SIR_NOPM_2_202308171085942_2023081771085984_0001  OCCOS_Attender Range Quality, OCCOS Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have been set to come or more records  The OCCOS_Attender Range and Backscatter Quality Flags have	CS_OFFL_SIR_NOPM_2_20230617T074855_20230617T075338_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Coulty  To rose or more records  CS_OFFL_SIR_NOPM_2_20230617108095_202306171090206_C001  CS_OFFL_SIR_NOPM_2_20230617109095_202306171094024_C001  CS_OFFL_SIR_NOPM_2_20230617109095_202306171094024_C001  CS_OFFL_SIR_NOPM_2_20230617109095_202306171094024_C001  CS_OFFL_SIR_NOPM_2_20230617109095_202306171094024_C001  CS_OFFL_SIR_NOPM_2_20230617109695_202306171094024_C001  CS_OFFL_SIR_NOPM_2_20230617109695_202306171095944_C001  CS_OFFL_SIR_NOPM_2_20230617109695_202306171095944_C001  CS_OFFL_SIR_NOPM_2_20230617109695_202306171095944_C001  CS_OFFL_SIR_NOPM_2_20230617109695_20230617109694_C001  CS_OFFL_SIR_NOPM_2_20230617109695_20230617109694_C001  CS_OFFL_SIR_NOPM_2_20230617109695_2023061710979_C001  CS_OFFL_SIR_NOPM_2_20230617109695_2023061710979_C001  CS_OFFL_SIR_NOPM_2_20230617109695_2023061710979_C001  CS_OFFL_SIR_NOPM_2_20230617109695_2023061710979_C001  CS_OFFL_SIR_NOPM_2_20230617109695_2023061710979_C001  CS_OFFL_SIR_NOPM_2_2023061710979_C001  CS_OFFL_SIR_NOPM_2_2023061710979_C001  CS_OFFL_SIR_NOPM_2_2023061710979_C001  CS_OFFL_SIR_NOPM_2_2023061710979_C001  CS_OFFL_SIR_NOPM_2_20230617110979_C001  CS_OFFL_SIR_NOPM_2_20230617110979_C001  CS_OFFL_SIR_NOPM_2_20230617110979_C001  CS_OFFL_SIR_NOPM_2_20230617110979_C001  CS_OFFL_SIR_NOPM_2_20230617110979_C001  CS_OFFL_SIR_NOPM_2_20230617110979_C001  CS_OFFL_SIR_NOPM_2_20230617110979_C001  CS_OFFL_SIR_NOPM_2_20230617111097_C001  C	CS_OFFL_SIR_NOPM_2_20230617T081536_20230617T085049_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230617109095_202306171094024_C001  Ocean Altmeter Parage, SSHA, SWH and Backscatter Quality Plags and the OCOO Altmeter Parage, SSHA, SWH and Backscatter Quality Plags and the OCOO Altmeter Parage, SSHA, SWH and Backscatter Quality Plags and the OCOO Altmeter Parage, SSHA, SWH and Backscatter Quality Plags and the OCOO Altmeter Parage, SSHA, SWH and Backscatter Quality Plags and the OCOO Altmeter Parage, SSHA, SWH and Backscatter Quality Plags and the OCOO Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  CS_OFFL_SIR_NOPM_2_202306171095946_20230617110319_C001  Ocean Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  Ocean Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  Ocean Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  Ocean Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  Ocean Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  OCEAN Altmeter Parage, SSHA, SWH and Backscatter Quality Plags ha	CS_OFFL_SIR_NOPM_2_20230617T085342_20230617T085854_C001		
and Backscatter Ouality Flogs have been Affinder Range and Backscatter Ouality Flags and the DCOGA Allimeter Range and Backscatter Ouality Flags and the DCOGA Allimeter Range and Backscatter Ouality Flags have been Allimeter Range and Backscatter Ouality Flags have been Self-Self-Self-Self-Self-Self-Self-Self-	CS_OFFL_SIR_NOPM_2_20230617T085914_20230617T090206_C001		
and Backscatter Quality COCG Allmeter Range and Backscatter Quality Flags have been Allmeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_2023061771095946_20230617710319_C001  CS_OFFL_SIR_NOPM_2_2023061771095946_20230617710319_C001  CS_OFFL_SIR_NOPM_2_2023061771095946_202306177103017_C001  CS_OFFL_SIR_NOPM_2_20230617710517_202306177103017_C001  CS_OFFL_SIR_NOPM_2_202306177103249_202306177103753_C001  CS_OFFL_SIR_NOPM_2_202306177103249_202306177105732_C001  CS_OFFL_SIR_NOPM_2_202306177103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103249_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771103049_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771105059_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771105059_2023061771105732_C001  CS_OFFL_SIR_NOPM_2_2023061771105059_20230617711050	CS_OFFL_SIR_NOPM_2_20230617T090955_20230617T094024_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 Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20230617T095405_20230617T095944_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_20230617T103248_20230617T103753_C001  CS_OFFL_SIR_NOPM_2_20230617T103248_20230617T103753_C001  CS_OFFL_SIR_NOPM_2_20230617T103248_20230617T105732_C001  CS_OFFL_SIR_NOPM_2_20230617T10352_20230617T105732_C001  CS_OFFL_SIR_NOPM_2_20230617T10352_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T10352_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T110352_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T110352_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T1120926_C001  CS_OFFL_SIR_NOPM_2_20230617T1120926_C001  CS_OFFL_SIR_NOPM_2_20230617T1120926_C001  CS_OFFL_SIR_NOPM_2_20230617T120926_C001  CS_OFFL_SIR_NOPM_2_20230617T1209	CS_OFFL_SIR_NOPM_2_20230617T095946_20230617T101319_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230617T104723_20230617T105732_C001  CS_OFFL_SIR_NOPM_2_20230617T104723_20230617T105732_C001  CS_OFFL_SIR_NOPM_2_20230617T110352_20230617T1105732_C001  CS_OFFL_SIR_NOPM_2_20230617T110352_20230617T110352_20230617T110352_20	CS_OFFL_SIR_NOPM_2_20230617T101517_20230617T103017_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  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPM_2_20230617T103248_20230617T103753_C001	0 2	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230617T113309_20230617T114938_C001  CS_OFFL_SIR_NOPM_2_20230617T115518_20230617T120926_C001  CS_OFFL_SIR_NOPM_2_20230617T115518_20230617T120926_C001  CS_OFFL_SIR_NOPM_2_20230617T121204_20230617T120926_C001  CS_OFFL_SIR_NOPM_2_20230617T121204_20230617T120926_C001  CS_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001  CS_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001  CS_OFFL_SIR_NOPM_2_20230617T122503_20230617T124730_C001  CS_OFFL_SIR_NOPM_2_20230617T12503_20230617T12579_C001  CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T12579_C001  CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CCOCA Ritimeter Range and Backscatter Quality occos Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Occan Altimeter Range and Backscatter Quality Flags have been set for one or more r	CS_OFFL_SIR_NOPM_2_20230617T104723_20230617T105732_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_20230617T115518_20230617T120926_C001  Cs_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001  Cs_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001  Cs_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001  Cs_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001  Cs_OFFL_SIR_NOPM_2_20230617T122503_20230617T124730_C001  Cs_OFFL_SIR_NOPM_2_20230617T12503_20230617T124730_C001  Cs_OFFL_SIR_NOPM_2_20230617T12503_20230617T124730_C001  Cs_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  Cs_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  Cs_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  Cs_OFFL_SIR_NOPM_2_20230617T132640_20230617T134759_C001  Cs_OFFL_SIR_NOPM_2_20230617T132640_20230617T134759_C001  Cs_OFFL_SIR_NOPM_2_20230617T132640_20230617T135622_C001  Cs_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  Cc_OCA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Cs_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  Cc_OCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Cs_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  Cc_OCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPM_2_20230617T110352_20230617T111627_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_20230617T121204_20230617T121704_C001  CS_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001  CS_OFFL_SIR_NOPM_2_20230617T122503_20230617T124730_C001  CS_OFFL_SIR_NOPM_2_20230617T122503_20230617T124730_C001  CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T13559_C001  CS_OFFL_SIR_NOPM_2_20230617T135640_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CCEan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CCEAN Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230617T135648_20230617T135622_C001  CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CCEAN Altimeter Range Quality, OCOG 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  CCCEAN Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  CCCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20230617T113309_20230617T114938_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230617T122503_20230617T124730_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20230617T122503_20230617T124730_C001  CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T134759_C001  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T134759_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CCG_Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CCG_Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG CCG_Altimeter Range, SSHA, SWH And Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20230617T140318_20230617T143114_C001	CS_OFFL_SIR_NOPM_2_20230617T115518_20230617T120926_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 and Backscatter Quality Flags have been  CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T13759_C001  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T13759_C001  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T13759_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T140318_20230617T143114_C001  And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range Quality, OCOG Backscatter Quality, OC	CS_OFFL_SIR_NOPM_2_20230617T121204_20230617T121704_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T134759_C001  CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001  CS_OFFL_SIR_NOPM_2_20230617T140318_20230617T143114_C001  CS_OFFL_SIR_NOPM_2_20230617T140318_20230617T143114_C001  And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  COCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20230617T122503_20230617T124730_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T134759_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG and Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20230617T124840_20230617T125719_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20230617T132640_20230617T134759_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230617T140318_20230617T143114_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20230617T135248_20230617T135622_C001		
	CS_OFFL_SIR_NOPM_2_20230617T140318_20230617T143114_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20230617T150220_20230617T152806_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_20230617T153031_20230617T153537_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_20230617T154302_20230617T161640_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_20230617T163628_20230617T163715_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_20230617T163719_20230617T163804_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_20230617T164247_20230617T164928_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_20230617T170221_20230617T170704_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_20230617T171031_20230617T171610_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_20230617T172257_20230617T175609_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_20230617T180859_20230617T181007_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_20230617T181643_20230617T181715_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_20230617T182841_20230617T184550_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_20230617T184956_20230617T185506_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_20230617T190136_20230617T193743_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_20230617T200458_20230617T202234_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_20230617T204140_20230617T211743_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_20230617T213009_20230617T214824_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_20230617T214925_20230617T220300_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_20230617T221121_20230617T221319_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_20230617T221437_20230617T221822_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_20230617T222032_20230617T223542_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_20230617T223744_20230617T224707_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_20230617T230515_20230617T230638_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_20230617T230851_20230617T231149_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_20230617T231316_20230617T232626_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_20230617T234228_20230617T234349_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_20230617T234935_20230617T235724_C001	0 2	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230617T130029_20230617T130425_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_20230617T230404_20230617T230515_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_20230617T030458_20230617T030611_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_20230617T062756_20230617T063548_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_NOPR_2_20230617T111837_20230617T111947_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_20230617T140156_20230617T140317_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_20230617T162852_20230617T163009_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 (20 Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20230617T000244_20230617T000405_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_20230617T001726_20230617T002047_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_20230617T011444_20230617T011804_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_20230617T022029_20230617T022125_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_20230617T022603_20230617T022821_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_20230617T030814_20230617T030949_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_20230617T035648_20230617T035808_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_20230617T045749_20230617T045914_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_20230617T053639_20230617T053952_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_20230617T054510_20230617T054625_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_20230617T060408_20230617T060448_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_20230617T060730_20230617T060915_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_20230617T061741_20230617T061825_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_20230617T071448_20230617T071838_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_20230617T080203_20230617T080229_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_20230617T094549_20230617T094645_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_20230617T103957_20230617T104212_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_20230617T104215_20230617T104338_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_20230617T105733_20230617T105838_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_20230617T111947_20230617T112248_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_20230617T112347_20230617T112601_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_20230617T121014_20230617T121204_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_20230617T121850_20230617T122338_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_20230617T130029_20230617T130425_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_20230617T131921_20230617T132022_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_20230617T135016_20230617T135212_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_20230617T140004_20230617T140156_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_20230617T145237_20230617T145247_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_20230617T150118_20230617T150220_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_20230617T152858_20230617T153031_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_20230617T153912_20230617T154044_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_20230617T161647_20230617T161832_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_20230617T162717_20230617T162852_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_20230617T170917_20230617T171031_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_20230617T175609_20230617T175713_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_20230617T180636_20230617T180652_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_20230617T184830_20230617T184956_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_20230617T185506_20230617T185813_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_20230617T200410_20230617T200458_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_20230617T203410_20230617T203935_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_20230617T212504_20230617T212838_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_20230617T221320_20230617T221437_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_20230617T221822_20230617T222003_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_20230617T225708_20230617T225844_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_20230617T230638_20230617T230848_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_20230617T234559_20230617T234935_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_20230617T235724_20230617T235911_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_20230617T000052_20230617T000152_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_20230617T000431_20230617T000443_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_20230617T003547_20230617T003740_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_20230617T012053_20230617T012111_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_20230617T013030_20230617T013403_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_20230617T025837_20230617T025943_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_20230617T030458_20230617T030611_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_20230617T030710_20230617T030814_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_20230617T030950_20230617T031302_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_20230617T035335_20230617T035647_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_20230617T043716_20230617T043918_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_20230617T044816_20230617T045612_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_20230617T053247_20230617T053639_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_20230617T054625_20230617T054832_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_20230617T061935_20230617T062118_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_20230617T062636_20230617T062753_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_20230617T062756_20230617T063548_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_20230617T071203_20230617T071448_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_20230617T080249_20230617T080425_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_20230617T080747_20230617T081137_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_20230617T08137_20230617T081536_C001  CS_OFFL_SIR_NOPR_2_20230617T085049_20230617T085200_C001  CS_OFFL_SIR_NOPR_2_20230617T085049_20230617T085200_C001  CS_OFFL_SIR_NOPR_2_20230617T095049_20230617T095227_C001  CS_OFFL_SIR_NOPR_2_20230617T095049_20230617T095227_C001  CS_OFFL_SIR_NOPR_2_20230617T095241_20230617T095227_C001  CS_OFFL_SIR_NOPR_2_20230617T095241_20230617T0952404_C001  CS_OFFL_SIR_NOPR_2_20230617T1095241_20230617T0952404_C001  CS_OFFL_SIR_NOPR_2_20230617T110115_20230617T110352_C001  CS_OFFL_SIR_NOPR_2_20230617T1110115_20230617T1113130_C001  CS_OFFL_SIR_NOPR_2_20230617T1112605_20230617T113130_C001  CS_OFFL_SIR_NOPR_2_20230617T112605_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115519_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115519_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115519_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115519_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115519_20230617T115518_C001  CCGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for more records  CS_OFFL_SIR_NOPR_2_20230617T115518_C001  CCGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for more records  CCGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for more records  CCGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for more records  CCGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for more records  CCGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for more records  CCGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for more records	lags been lags been one or lags been one or
CS_OFFL_SIR_NOPR_2_20230617T085049_20230617T085200_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM of the OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality P	lags been one or lags been one or
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records  CS_OFFL_SIR_NOPR_2_20230617T095241_20230617T095404_C001  CS_OFFL_SIR_NOPR_2_20230617T1095241_20230617T1095404_C001  CS_OFFL_SIR_NOPR_2_20230617T110115_20230617T110352_C001  CS_OFFL_SIR_NOPR_2_20230617T110115_20230617T110352_C001  CS_OFFL_SIR_NOPR_2_20230617T112605_20230617T113130_C001  CS_OFFL_SIR_NOPR_2_20230617T112605_20230617T113130_C001  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115539_50000000000000000000000000000000000	one or lags been or lags been
CS_OFFL_SIR_NOPR_2_20230617T1095241_20230617T1095404_C001  CS_OFFL_SIR_NOPR_2_20230617T110115_20230617T110352_C001  CS_OFFL_SIR_NOPR_2_20230617T11015_20230617T110352_C001  CS_OFFL_SIR_NOPR_2_20230617T112605_20230617T113130_C001  CS_OFFL_SIR_NOPR_2_20230617T112605_20230617T113130_C001  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for more records  The Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records  The OCOG Range and Backscatter Quality Flags have been set for more records  The OCOG Range and Backscatter Quality Flags have been set for more records  The OCOG Range and Backscatter Quality Flags have been set for more records  The OCOG Range and Backscatter Quality Flags have been set for more records  The OCOG Range and Backscatter Quality Flags have been set for more records	lags been one or
CS_OFFL_SIR_NOPR_2_20230617T110352_C001  OCOG Backscatter Quality  Ocan Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPR_2_20230617T112605_20230617T113130_C001  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records	lags been one or one or lags been
CS_OFFL_SIR_NOPR_2_20230617T112605_20230617T113130_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115339_20230617T115518_C001  CS_OFFL_SIR_NOPR_2_20230617T115719_20230617T1125959_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records	one or
OCOG Backscatter Quality  more records  OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for	one or lags been
	lags been
	been
CS_OFFL_SIR_NOPR_2_20230617T130548_20230617T130945_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 have set for one or more records	one or
CS_OFFL_SIR_NOPR_2_20230617T131020_20230617T131119_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for more records	
CS_OFFL_SIR_NOPR_2_20230617T132440_20230617T132509_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records  The OCOG Range and Backscatter Quality Flags have been set for more records	ne or
CS_OFFL_SIR_NOPR_2_20230617T134759_20230617T135016_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.	
CS_OFFL_SIR_NOPR_2_20230617T144244_20230617T145237_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 have set for one or more records	
CS_OFFL_SIR_NOPR_2_20230617T154044_20230617T154302_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and the OCO	
CS_OFFL_SIR_NOPR_2_20230617T161832_20230617T161857_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for more records	one or
CS_OFFL_SIR_NOPR_2_20230617T162015_20230617T162657_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 have set for one or more records	
CS_OFFL_SIR_NOPR_2_20230617T163715_20230617T163719_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for more records	ne or
CS_OFFL_SIR_NOPR_2_20230617T164928_20230617T164939_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for more records	ne or
CS_OFFL_SIR_NOPR_2_20230617T164944_20230617T165123_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records  The OCOG Range and Backscatter Quality Flags have been set for more records	one or
CS_OFFL_SIR_NOPR_2_20230617T171928_20230617T172256_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 and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPR_2_20230617T175813_20230617T175846_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 and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPR_2_20230617T181114_20230617T181444_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records  The OCOG Range and Backscatter Quality Flags have been set for more records	one or
CS_OFFL_SIR_NOPR_2_20230617T184550_20230617T184830_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 and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPR_2_20230617T185814_20230617T190136_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 have set for one or more records	
CS_OFFL_SIR_NOPR_2_20230617T194928_20230617T195942_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records	ne or
CS_OFFL_SIR_NOPR_2_20230617T202234_20230617T202913_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 and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	

CS_OFFL_SIR_NOPR_2_20230617T214824_20230617T214924_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_20230617T220300_20230617T220725_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_20230617T225844_20230617T225940_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_20230617T225941_20230617T230404_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_20230617T231149_20230617T231316_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_20230617T232626_20230617T232718_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_20230617T232726_20230617T233141_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

#### L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

#### 5.7 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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

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

umber of products with errors:

#### L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

# 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	152	152	4	148	0
SIR_NOPR1B	116	116	0	116	0
SIR_NOPN1B	116	116	2	114	0
SIR_NOPM_2	152	152	90	62	0
SIR_NOPR_2	116	116	27	89	0
SIR_NOPN_2	116	116	42	74	0

## 7.1 QCC Errors

Number of QCC reports with errors:

Test Description Key:
Abbreviation Test name Details

# 7.2 QCC Warnings

Number of QCC reports with warnings

1937

#### Total number of occurrences of each warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF
SIR_NOPM1B	148	0	0	0	0	0	0
SIR_NOPM_2	0	46	46	1	43	0	36
SIR_NOPN1B	112	0	0	0	0	0	0
SIR_NOPN_2	0	9	32	5	22	30	19
SIR_NOPR1B	111	0	0	0	0	0	0
SIR NOPR 2	0	37	50	1	29	31	14

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	5	0	40	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	54	2	0	0	24	0	33
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	50	5	0	49	0	57	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	33	0	0	6	31	0	7
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	28	26	47	51	36
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	51	0	2	62	37	8
	*	•					•
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-

SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	38	0	3	0	0	0	
SIR_NOPN1B	0	0	0	0	44	0	
SIR_NOPN_2	25	25	16	0	0	0	
SIR_NOPR1B	0	0	0	0	116	7	
SIR_NOPR_2	42	51	2	2	0	0	

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
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 CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
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: