



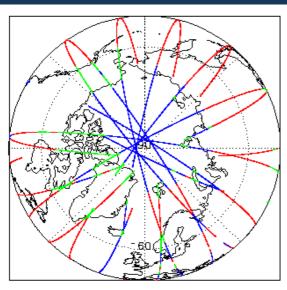
1. Overview

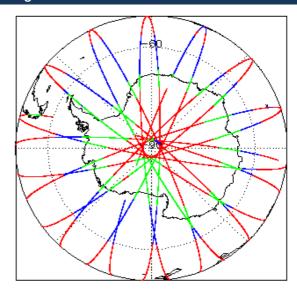
Report Production:	01-Nov-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

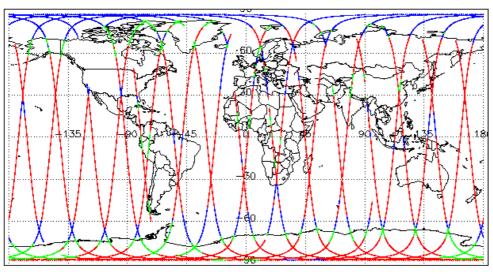
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1, 7.2

Mission / Instru	ment News
30-Oct-2022	None
31-Oct-2022	None
01-Nov-2022	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. 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: 3

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20221031T043400_20221031T043502_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20221031T220833_20221031T222432_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20221031T235431_20221101T000438_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20221031T001944_20221031T004124_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20221031T013943_20221031T014232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20221031T044624_20221031T045427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20221031T065653_20221031T072937_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20221031T110529_20221031T111647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T001347_20221031T001716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T015456_20221031T015638_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T082858_20221031T083525_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T091944_20221031T092105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T092356_20221031T092527_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T105407_20221031T105435_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T123816_20221031T124317_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T141118_20221031T141153_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20221031T222806_20221031T223022_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T014232_20221031T014454_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T105234_20221031T105407_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T131913_20221031T132134_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T154707_20221031T154857_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T171802_20221031T172151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T182951_20221031T183351_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T191205_20221031T191948_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20221031T214627_20221031T215208_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:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

0

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20221031T124317_20221031T125145_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_20221031T001347_20221031T001716_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_20221031T005513_20221031T005905_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_20221031T015456_20221031T015638_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_20221031T041200_20221031T041319_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20221031T060212_20221031T060316_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_20221031T064339_20221031T064454_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_20221031T064952_20221031T065314_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_20221031T082429_20221031T082705_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_20221031T091944_20221031T092105_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20221031T100141_20221031T100600_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_20221031T105902_20221031T110006_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_20221031T114200_20221031T114353_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_20221031T115216_20221031T115404_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_20221031T123816_20221031T124317_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20221031T150257_20221031T150500_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_20221031T164049_20221031T164409_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_20221031T164932_20221031T165051_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_20221031T173942_20221031T174300_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_20221031T181944_20221031T182305_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_20221031T182826_20221031T182951_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_20221031T195616_20221031T195814_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_20221031T200652_20221031T200825_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_20221031T205005_20221031T205106_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_20221031T214420_20221031T214627_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_20221031T222806_20221031T223022_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_20221031T231436_20221031T231623_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_20221031T233131_20221031T233350_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_20221031T005905_20221031T010410_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_20221031T023559_20221031T024447_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_20221031T041520_20221031T042337_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_20221031T042631_20221031T042834_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_20221031T043214_20221031T043358_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_20221031T094203_20221031T094417_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20221031T105234_20221031T105407_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_20221031T141330_20221031T141837_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_20221031T154129_20221031T154219_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_20221031T154305_20221031T154325_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_20221031T154707_20221031T154857_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_20221031T155229_20221031T160039_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_20221031T173117_20221031T173942_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_20221031T191205_20221031T191948_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_20221031T205106_20221031T205650_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_20221031T223022_20221031T223706_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:

3

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20221031T043400_20221031T043502_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20221031T220833_20221031T222432_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20221031T235431_20221101T000438_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:

97

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20221030T234937_20221031T000322_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_20221031T000718_20221031T001153_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_20221031T001944_20221031T004124_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_20221031T004126_20221031T004510_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_NOPM_2_20221031T004739_20221031T005300_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_20221031T010635_20221031T011335_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_20221031T011539_20221031T011631_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_20221031T011841_20221031T013859_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_20221031T013943_20221031T014232_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_20221031T015130_20221031T015455_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_20221031T015830_20221031T022453_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_20221031T025704_20221031T032156_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_20221031T032533_20221031T033023_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_20221031T033029_20221031T033359_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_20221031T033913_20221031T041200_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_20221031T042337_20221031T042631_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_20221031T044624_20221031T045427_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_20221031T045703_20221031T045837_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_20221031T050528_20221031T051053_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_20221031T051821_20221031T053859_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_20221031T054145_20221031T055305_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_20221031T060316_20221031T060634_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_20221031T062258_20221031T063911_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_20221031T065653_20221031T072937_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_20221031T074318_20221031T074419_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_20221031T075437_20221031T081730_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_20221031T082705_20221031T082858_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_20221031T083642_20221031T085142_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_20221031T085144_20221031T085321_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_20221031T085802_20221031T090926_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_20221031T09252_20221031T094203_C001 CS_OFFL_SIR_NOPM_2_20221031T09252_20221031T094203_C001 CS_OFFL_SIR_NOPM_2_20221031T094417_20221031T09569_C001 CS_OFFL_SIR_NOPM_2_20221031T094417_20221031T09569_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T10332_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T10332_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T10332_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T10332_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T10332_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T10332_C001 CS_OFFL_SIR_NOPM_2_20221031T10559_20221031T10447_C001 CS_OFFL_SIR_NOPM_2_20221031T10559_20221031T10447_C001 CS_OFFL_SIR_NOPM_2_20221031T10559_20221031T10559_C001 CS_OFFL_SIR_NOPM_2_20221031T110559_20221031T110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C00101110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C00101110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C00101110540_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C0010110440_C001 CS_OFFL_SIR_NOPM_2_20221031T1105540_C0010110440_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C00101110440_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C001011110440_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C00101110440_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C00101110440_C001 CS_OFFL_SIR_NOPM_2_20221031T110540_C00101110440_C001 CS_OFFL_SIR_	Flags been Flags been
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Plags have Inforced to remove records CS_OFFL_SIR_NOPM_2_20221031T094417_20221031T095699_C001 CS_OFFL_SIR_NOPM_2_20221031T100856_20221031T10313_C001 CS_OFFL_SIR_NOPM_2_20221031T100856_20221031T10313_C001 CS_OFFL_SIR_NOPM_2_20221031T101540_20221031T103025_C001 CS_OFFL_SIR_NOPM_2_20221031T101540_20221031T103025_C001 CS_OFFL_SIR_NOPM_2_20221031T101540_20221031T103025_C001 CS_OFFL_SIR_NOPM_2_20221031T105232_20221031T103025_C001 CS_OFFL_SIR_NOPM_2_20221031T105232_20221031T103025_C001 CS_OFFL_SIR_NOPM_2_20221031T110523_20221031T10323_C001 CS_OFFL_SIR_NOPM_2_20221031T110523_20221031T110523_C001 CS_OFFL_SIR_NOPM_2_20221031T110523_20221031T110523_C001 CS_OFFL_SIR_NOPM_2_20221031T110523_20221031T110523_C001 CS_OFFL_SIR_NOPM_2_20221031T110523_20221031T111326_C001 CS_OFFL_SIR_NOPM_2_20221031T110533_C0021031T11326_C001 CS_OFFL_SIR_NOPM_2_20221031T110533_20221031T11326_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T11326_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T112616_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T1126165_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T1126165_C001 CS_OFFL_SIR_NOPM_2_20221031T112632_20221031T112663_C001 CS_OFFL_SIR_NOPM_2_20221031T112632_20221031T112663_C001 CS_OFFL_SIR_NOPM_2_20221031T112632_20221031T126165_C001 CS_OFFL_SIR_NOPM_2_20221031T112632_20221031T126165_C001 CS_OFFL_SIR_NOPM_2_20221031T112632_20221031T126165_C001 CS_OFFL_SIR_NOPM_2_20221031T112632_20221031T126165_C001 CS_OFFL_SIR_NOPM_2_20221031T112632_20221031T126165_C001 CS_	Flags been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have before one or more records CS_OFFL_SIR_NOPM_2_20221031T100866_20221031T101313_CO01 CS_OFFL_SIR_NOPM_2_20221031T101540_20221031T103025_CO01 CS_OFFL_SIR_NOPM_2_20221031T101540_20221031T103025_CO01 CS_OFFL_SIR_NOPM_2_20221031T103225_20221031T104147_CO01 CS_OFFL_SIR_NOPM_2_20221031T103225_20221031T104147_CO01 CS_OFFL_SIR_NOPM_2_20221031T103225_20221031T104147_CO01 CS_OFFL_SIR_NOPM_2_20221031T103225_20221031T104147_CO01 CS_OFFL_SIR_NOPM_2_20221031T110233_2001 CS_OFFL_SIR_NOPM_2_20221031T110233_2001 CS_OFFL_SIR_NOPM_2_20221031T110233_2001 CS_OFFL_SIR_NOPM_2_20221031T110233_2001 CS_OFFL_SIR_NOPM_2_20221031T110233_2001 CS_OFFL_SIR_NOPM_2_20221031T110232_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T110232_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T110232_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T110322_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T1110302_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T111031_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_20021031T111031_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_CO01 CS_OFFL_SIR_NOPM_2_20221031T11031_CO01 CS_OFFL_SIR_NOPM_2_20221031T110313_CO01 CS_OFFL_SIR_NOPM_2_20221031T110331_CO01 CS_OFFL_SIR_NOPM_2_20221031T110331_CO01 CS_OFFL_SIR_NOPM_2_20221031T110331_CO01 CS_OFFL_SIR_NOPM_2_20221031T110331_CO01 CS_OFFL_SIR_NOPM_2_20221031T110331_CO01 CS_OFFL_SIR_NOPM_2_20221031T110331_CO01 CS_OFFL_SIR_NOPM_2_20221031T110331_CO010 CS_OFFL_SIR_NOPM_2_20221031T110331_CO010 CS_OFFL_SIR_NOPM_2_202210	e been
CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T103925_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T103925_C001 CS_OFFL_SIR_NOPM_2_20221031T10540_20221031T10323_C001 CS_OFFL_SIR_NOPM_2_20221031T10553_20221031T104147_C001 CS_OFFL_SIR_NOPM_2_20221031T10553_20221031T10550_C001 CS_OFFL_SIR_NOPM_2_20221031T110550_20221031T110550_C001 CS_OFFL_SIR_NOPM_2_20221031T110550_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_2021031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_2021031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_2021031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110550_C001 CS_OFFL_SIR_NOPM_2_20221031T1110545_C001 CS_OFFL_SIR_NOPM_2_20221031T1110545_C001 CS_OFFL_SIR_NOPM_2_20221031T1120560_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T1120550_C001 CS_OFFL_SIR_NOPM_2_20221031T120550_C001 CS_OFFL_SIR_NOPM_2_20221031T120	en set
and Backscatter Quality and the OCOS Allimeter Range and Backscatter Quality Flags have the CS_OFFL_SIR_NOPM_2_20221031T10325_20221031T104147_C001 CS_OFFL_SIR_NOPM_2_20221031T10529_20221031T110323_C001 CS_OFFL_SIR_NOPM_2_20221031T110529_20221031T110417_C001 CS_OFFL_SIR_NOPM_2_20221031T110529_20221031T1110529_20021031T1110529_20021031T1110529_200221031T1110529_20021031T110529_20021031T10529_20021031T10529_20021031T10529_20021031T10529_20021031T10529_20021031T10529	
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags has also been one or more records CS_OFFL_SIR_NOPM_2_20221031T110253_20221031T110253_20001 CS_OFFL_SIR_NOPM_2_20221031T110253_20221031T1110523_20001 CS_OFFL_SIR_NOPM_2_20221031T110529_20221031T1110523_20001 CS_OFFL_SIR_NOPM_2_20221031T110529_20221031T111059_2001 CS_OFFL_SIR_NOPM_2_20221031T11051_20221031T111059_2001 CS_OFFL_SIR_NOPM_2_20221031T11201_20221031T111059_2001 CS_OFFL_SIR_NOPM_2_20221031T11201_20221031T113026_CO01 CS_OFFL_SIR_NOPM_2_20221031T11201_20221031T113026_CO01 CS_OFFL_SIR_NOPM_2_20221031T11201_20221031T11201_2001 CS_OFFL_SIR_NOPM_2_20221031T11201_2001 CS_OFFL_SIR_NOPM_2_2022	
and Backscatter Quality, COGA Altimeter Range and Backscatter Quality Flags has Altimeter Range and Backscatter Quality Flags has Altimeter Range, SSHA, SWH and Backscatter Quality, COGA Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20221031T111651_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T111651_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T111618_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T1115545_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T111545_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T111545_20221031T11199_C001 CS_OFFL_SIR_NOPM_2_20221031T111545_20221031T111199_C001 CS_OFFL_SIR_NOPM_2_20221031T111545_20221031T111199_C001 CS_OFFL_SIR_NOPM_2_20221031T111545_20221031T1111199_C001 CS_OFFL_SIR_NOPM_2_20221031T1111111111111111111111111111111	
and the CCOG Altimeter Range and Backscatter Quality Flags has set for one or more records CS_OFFL_SIR_NOPM_2_20221031T111651_20221031T111959_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T113926_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T113926_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T115216_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T115114_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T1151545_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T1151545_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T115545_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T115545_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T115545_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T121635_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T12545_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125521_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125653_C001 CS_OFFL_SIR_N	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T113926_C001 CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T115216_C001 CS_OFFL_SIR_NOPM_2_20221031T114353_20221031T115216_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T115216_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T12141_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T12141_C001 CS_OFFL_SIR_NOPM_2_20221031T12148_20221031T121545_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T12545_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001 CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records CS_OFFL_SIR_NOPM_2_20221031T112618_20221031T115216_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T115216_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T121141_C001 CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T121141_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T121141_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T121635_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T125145_C001 CS_OFFL_SIR_NOPM_2_20221031T124317_20221031T125145_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001 And Backscatter Quality, Set for one or more records The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have to one or more records CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001 CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001 Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have to one or more records CS_OFFL_SIR_NOPM_2_20221031T125656_202210	
Backscatter Quality CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T121141_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20221031T115545_20221031T121141_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T121635_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T125145_C001 CS_OFFL_SIR_NOPM_2_20221031T124317_20221031T125145_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T131913_C001 CCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records CCean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have for one or more records CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T121635_C001 CS_OFFL_SIR_NOPM_2_20221031T121248_20221031T121635_C001 CS_OFFL_SIR_NOPM_2_20221031T124317_20221031T125145_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125655_C001 CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have for one or more records	en set
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and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have Set for one or more records CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPM_2_20221031T125321_20221031T125653_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPM_2_20221031T125656_20221031T131913_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have	
CS_OFFL_SIR_NOPM_2_20221031T132253_20221031T132452_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have be for one or more records	en set
CS_OFFL_SIR_NOPM_2_20221031T132538_20221031T133036_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have be for one or more records	en set
CS_OFFL_SIR_NOPM_2_20221031T133531_20221031T135911_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPM_2_20221031T141153_20221031T141223_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPM_2_20221031T143207_20221031T145715_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPM_2_20221031T150219_20221031T150257_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_NOPM_2_20221031T150500_20221031T151101_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_NOPM_2_20221031T151422_20221031T154129_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_NOPM_2_20221031T154857_20221031T155146_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	Flags
CS_OFFL_SIR_NOPM_2_20221031T160357_20221031T163612_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	

CS_OFFL_SIR_NOPM_2_20221031T164409_20221031T164932_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_20221031T165454_20221031T165728_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_20221031T172735_20221031T173117_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_20221031T174300_20221031T175213_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_20221031T175458_20221031T181619_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_20221031T182305_20221031T182413_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_20221031T182419_20221031T182826_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_20221031T183351_20221031T184332_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_20221031T184520_20221031T185103_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_20221031T192011_20221031T195500_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_20221031T195814_20221031T200312_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_20221031T200333_20221031T200652_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_20221031T201413_20221031T204553_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_20221031T210011_20221031T211255_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_20221031T211843_20221031T213432_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_20221031T213700_20221031T214212_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_20221031T215208_20221031T220555_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_20221031T220833_20221031T222432_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_20221031T222616_20221031T222633_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_20221031T224738_20221031T225656_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_20221031T225936_20221031T231311_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_20221031T231623_20221031T232123_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_20221031T232148_20221031T232158_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_20221031T232203_20221031T232305_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_20221031T232959_20221031T233131_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_20221031T233350_20221031T234351_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_20221031T234634_20221031T235148_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_20221031T235431_20221101T000438_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221031T010410_20221031T010450_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_20221031T011357_20221031T011539_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221031T033446_20221031T033539_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_20221031T104147_20221031T104224_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221031T170348_20221031T170511_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221031T171524_20221031T171526_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221031T182826_20221031T182951_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_20221031T234351_20221031T234634_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_20221031T022602_20221031T022610_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_20221031T063911_20221031T064339_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_20221031T065314_20221031T065653_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_20221031T214627_20221031T215208_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_20221031T232123_20221031T232130_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20221031T001347_20221031T001716_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_20221031T005300_20221031T005424_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_20221031T005513_20221031T005905_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_20221031T011631_20221031T011841_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_20221031T014454_20221031T014721_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_20221031T015456_20221031T015638_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_20221031T032409_20221031T032533_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_20221031T041200_20221031T041319_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
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
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
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
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
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
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
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
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
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
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
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
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
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
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
DCOG Altimeter Range Quality PLRM, DCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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
PLRM Docean Altimeter Range, SSHA, SWH	set for one or more records
	COGG Backscatter Quality COGG Altimeter Range Quality PLRM, COGG Backscatter Quality COGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COGG Altimeter Range Quality PLRM, COGG Altimeter Range Quality PLRM, COGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COGG Backscatter Quality PLRM, COGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COGG Altimeter Range Range, SSHA, SWH COGG Altime

CS_OFFL_SIR_NOPN_2_20221031T214420_20221031T214627_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_20221031T222806_20221031T223022_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_20221031T224604_20221031T224738_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_20221031T233131_20221031T233350_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_20221031T234351_20221031T234634_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_20221031T004511_20221031T004739_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_20221031T005905_20221031T010410_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_20221031T010450_20221031T010635_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_20221031T013859_20221031T013943_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_20221031T022617_20221031T022643_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_20221031T023559_20221031T024447_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_20221031T033539_20221031T033913_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_20221031T041520_20221031T042337_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_20221031T042631_20221031T042834_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_20221031T043502_20221031T043645_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_20221031T045837_20221031T050404_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_20221031T051406_20221031T051821_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_20221031T063911_20221031T064339_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_20221031T065314_20221031T065653_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_20221031T085321_20221031T085802_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_20221031T094203_20221031T094417_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_20221031T125145_20221031T125321_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_20221031T131913_20221031T132134_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_20221031T141223_20221031T141309_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_20221031T143105_20221031T143207_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_20221031T145715_20221031T150059_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_20221031T151231_20221031T151422_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_20221031T154221_20221031T154232_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_20221031T154305_20221031T154325_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_20221031T154707_20221031T154857_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_20221031T155146_20221031T155223_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_20221031T155229_20221031T160039_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_20221031T163612_20221031T164049_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_20221031T165051_20221031T165454_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_20221031T171802_20221031T172151_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_20221031T172417_20221031T172625_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_20221031T173117_20221031T173942_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_20221031T182951_20221031T183351_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_20221031T191205_20221031T191948_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_20221031T200325_20221031T200333_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_20221031T200825_20221031T201223_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_20221031T205106_20221031T205650_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_20221031T205703_20221031T205815_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_20221031T213432_20221031T213521_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_20221031T214627_20221031T215208_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_20221031T220555_20221031T220833_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.

Number of products with errors:

66

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.