

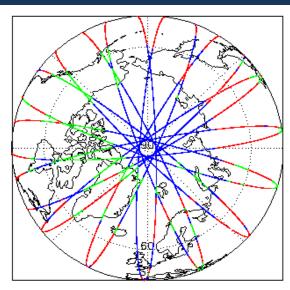
1. Overview

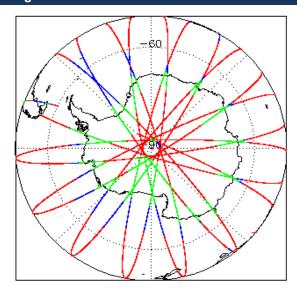
Report Production:	24-Jan-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

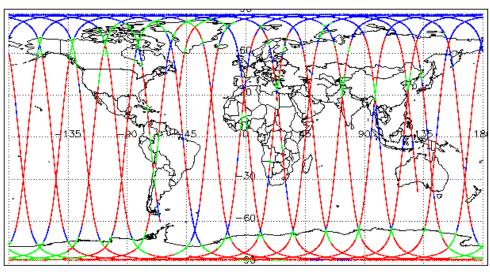
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2

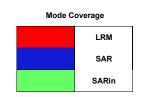
Mission / Instr	ument News
19-Jan-2022	None
20-Jan-2022	None
21-Jan-2022	Nothing planned

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

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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.

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lumber 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 IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW upda

Number of products with errors:

4.6 L1B Waveform Group Data Check

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

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

13

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220119T235256_20220120T000830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220120T131816_20220120T131939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220120T003653_20220120T003803_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220120T021613_20220120T022114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220120T053820_20220120T054249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220120T070544_20220120T070642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220120T120552_20220120T120824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220120T134241_20220120T134706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220120T035137_20220120T035618_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220120T083836_20220120T084141_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220120T152530_20220120T153412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220120T171022_20220120T171135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220120T171230_20220120T171244_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP 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:

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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.

Number of products with errors:

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5.4 L2 Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > 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: 45

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220120T004523_20220120T004553_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 tidal corrections for one or more records

CS_OFFL_SIR_IOPM_2_20220120T040830_20220120T043620_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20220120T133108_20220120T133815_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220120T003653_20220120T003803_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)
CS_OFFL_SIR_IOPN_2_20220120T003919_20220120T004107_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_IOPN_2_20220120T021613_20220120T022114_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)
CS_OFFL_SIR_IOPN_2_20220120T025901_20220120T030050_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220120T030905_20220120T031127_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)
CS_OFFL_SIR_IOPN_2_20220120T035618_20220120T040036_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220120T061836_20220120T062211_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)
CS_OFFL_SIR_IOPN_2_20220120T075756_20220120T080116_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)
CS_OFFL_SIR_IOPN_2_20220120T080629_20220120T080753_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220120T084841_20220120T084955_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)
CS_OFFL_SIR_IOPN_2_20220120T094533_20220120T094641_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220120T102758_20220120T102909_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220120T112236_20220120T112426_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)
CS_OFFL_SIR_IOPN_2_20220120T120552_20220120T120824_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)
CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_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_IOPN_2_20220120T143141_20220120T143425_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)
CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220120T193729_20220120T194036_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)
CS_OFFL_SIR_IOPN_2_20220120T211029_20220120T211313_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)
CS_OFFL_SIR_IOPN_2_20220120T225108_20220120T225343_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)
CS_OFFL_SIR_IOPN_2_20220120T234615_20220120T234735_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)
CS_OFFL_SIR_IOPR_2_20220120T003018_20220120T003341_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)
CS_OFFL_SIR_IOPR_2_20220120T003341_20220120T003653_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)
CS_OFFL_SIR_IOPR_2_20220120T020952_20220120T021612_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)
CS_OFFL_SIR_IOPR_2_20220120T035137_20220120T035618_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)
CS_OFFL_SIR_IOPR_2_20220120T052838_20220120T053820_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)
CS_OFFL_SIR_IOPR_2_20220120T070932_20220120T071719_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)
CS_OFFL_SIR_IOPR_2_20220120T084142_20220120T084841_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220120T084955_20220120T085748_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)
CS_OFFL_SIR_IOPR_2_20220120T102909_20220120T103622_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)
CS_OFFL_SIR_IOPR_2_20220120T120824_20220120T121532_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)
CS_OFFL_SIR_IOPR_2_20220120T134707_20220120T135428_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)

CS_OFFL_SIR_IOPR_2_20220120T152530_20220120T153412_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)
CS_OFFL_SIR_IOPR_2_20220120T170224_20220120T171001_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)
CS_OFFL_SIR_IOPR_2_20220120T184156_20220120T184819_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)
CS_OFFL_SIR_IOPR_2_20220120T184820_20220120T185114_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)
CS_OFFL_SIR_IOPR_2_20220120T202014_20220120T202719_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)
CS_OFFL_SIR_IOPR_2_20220120T202719_20220120T202859_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)
CS_OFFL_SIR_IOPR_2_20220120T220132_20220120T220618_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)
CS_OFFL_SIR_IOPR_2_20220120T220619_20220120T220740_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)
CS_OFFL_SIR_IOPR_2_20220120T233930_20220120T234502_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)
CS_OFFL_SIR_IOPR_2_20220120T234502_20220120T234614_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)

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:

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_IOPM_2_20220119T235256_20220120T000830_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_IOPM_2_20220120T001032_20220120T001954_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_IOPM_2_20220120T002351_20220120T002506_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_IOPM_2_20220120T004749_20220120T005915_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_IOPM_2_20220120T011509_20220120T011638_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_IOPM_2_20220120T011643_20220120T011849_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_IOPM_2_20220120T012220_20220120T013015_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_IOPM_2_20220120T013238_20220120T014737_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_IOPM_2_20220120T020337_20220120T020400_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_IOPM_2_20220120T022501_20220120T023942_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_IOPM_2_20220120T023945_20220120T025817_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_IOPM_2_20220120T030050_20220120T030301_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_IOPM_2_20220120T030322_20220120T030905_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_IOPM_2_20220120T031143_20220120T033703_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_IOPM_2_20220120T040830_20220120T043620_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_IOPM_2_20220120T044301_20220120T044731_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_IOPM_2_20220120T045043_20220120T051831_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_IOPM_2_20220120T052313_20220120T052535_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_IOPM_2_20220120T052752_20220120T052837_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_IOPM_2_20220120T054250_20220120T061539_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_IOPM_2_20220120T062212_20220120T062747_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_IOPM_2_20220120T062931_20220120T063532_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_IOPM_2_20220120T064618_20220120T065311_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_IOPM_2_20220120T070642_20220120T070818_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_IOPM_2_20220120T072144_20220120T075541_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_IOPM_2_20220120T080116_20220120T080628_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_IOPM_2_20220120T080829_20220120T082812_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_IOPM_2_20220120T085940_20220120T092130_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_IOPM_2_20220120T092240_20220120T093337_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_IOPM_2_20220120T094134_20220120T094532_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_IOPM_2_20220120T094725_20220120T094755_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_IOPM_2_20220120T094922_20220120T101632_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_IOPM_2_20220120T101647_20220120T102354_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_IOPM_2_20220120T102536_20220120T102758_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_IOPM_2_20220120T104035_20220120T105052_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_IOPM_2_20220120T105534_20220120T105707_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_IOPM_2_20220120T105714_20220120T111313_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_IOPM_2_20220120T111457_20220120T112016_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_IOPM_2_20220120T112022_20220120T112029_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_IOPM_2_20220120T112035_20220120T112236_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_IOPM_2_20220120T113110_20220120T114353_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_IOPM_2_20220120T114607_20220120T115835_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_IOPM_2_20220120T120030_20220120T120236_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_IOPM_2_20220120T122526_20220120T123458_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_IOPM_2_20220120T123733_20220120T125208_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_IOPM_2_20220120T125423_20220120T125928_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_IOPM_2_20220120T125952_20220120T130107_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_IOPM_2_20220120T130800_20220120T130857_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_IOPM_2_20220120T131816_20220120T131939_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_IOPM_2_20220120T132522_20220120T132945_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_IOPM_2_20220120T133108_20220120T133815_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_IOPM_2_20220120T141418_20220120T143125_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_IOPM_2_20220120T143426_20220120T143845_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_IOPM_2_20220120T144502_20220120T150944_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_IOPM_2_20220120T154521_20220120T161058_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_IOPM_2_20220120T161238_20220120T161800_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_IOPM_2_20220120T161807_20220120T162131_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_IOPM_2_20220120T162430_20220120T165206_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_IOPM_2_20220120T165332_20220120T165653_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_IOPM_2_20220120T172950_20220120T175037_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_IOPM_2_20220120T175230_20220120T180039_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_IOPM_2_20220120T180426_20220120T183809_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_IOPM_2_20220120T185115_20220120T185218_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_IOPM_2_20220120T192149_20220120T193008_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_IOPM_2_20220120T193210_20220120T193729_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20220120T194308_20220120T200539_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220120T200825_20220120T201756_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_IOPM_2_20220120T202955_20220120T203030_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_IOPM_2_20220120T203102_20220120T203358_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_IOPM_2_20220120T204947_20220120T205431_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_IOPM_2_20220120T205620_20220120T210758_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_IOPM_2_20220120T211314_20220120T211630_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_IOPM_2_20220120T212254_20220120T212823_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_IOPM_2_20220120T212832_20220120T215033_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_IOPM_2_20220120T215125_20220120T215415_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_IOPM_2_20220120T221248_20220120T221948_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_IOPM_2_20220120T222011_20220120T224408_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_IOPM_2_20220120T230208_20220120T230800_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_IOPM_2_20220120T232240_20220120T233021_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_IOPM_2_20220120T233919_20220120T233929_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_IOPM_2_20220120T235301_20220121T000646_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_IOPN_2_20220120T022121_20220120T022200_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_IOPN_2_20220120T022413_20220120T022500_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_IOPN_2_20220120T080629_20220120T080753_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_IOPN_2_20220120T084841_20220120T084955_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_IOPN_2_20220120T153524_20220120T153649_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_IOPN_2_20220120T171002_20220120T171022_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_IOPN_2_20220120T183810_20220120T183944_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_IOPN_2_20220120T203847_20220120T203853_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_IOPN_2_20220120T220118_20220120T220131_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_IOPR_2_20220120T004107_20220120T004311_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_IOPR_2_20220120T133941_20220120T134155_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_IOPR_2_20220120T161058_20220120T161123_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_IOPR_2_20220120T170224_20220120T171001_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_IOPR_2_20220120T190243_20220120T190303_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
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	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.

Number of products with errors:

Test Failed	Description
OCOG Altimeter Range Quality PLRM, OCOG 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
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
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH 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
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH 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
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH 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
OCOG Altimeter Range Quality PLRM, OCOG 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
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
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH 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
OCOG Altimeter Range Quality PLRM, OCOG 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 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean 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 Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range 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

CB_OFFL_SIR_IOPR_2_20220120T1094607_20220120T109461_COST CB_OFFL_SIR_IOPR_2_20220120T1094607_20220120T109461_COST CB_OFFL_SIR_IOPR_2_20220120T1094607_20220120T109461_COST CB_OFFL_SIR_IOPR_2_20220120T1094607_20220120T109461_COST CB_OFFL_SIR_IOPR_2_20220120T1094607_20220120T109461_COST CB_OFFL_SIR_IOPR_2_20220120T1094607_COST CB_OFFL_SIR_IOPR_2_20220120T1		OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_OPN_2_20220120T091098_20220120T09809_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09819_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09819_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09819_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09819_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09819_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09819_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09829_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09829_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09829_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T09829_C001 CR_OFFL_SIR_OPN_2_20220120T09098_20220120T0998_2001 CR_OFFL_SIR_OPN_2_20220120T0999_2001 CR_OFFL_SIR_OPN_2_20220120T0999_2001 CR_OFFL_SIR_OPN_2_20220120T1999_2001 CR_OFFL_SIR_OPN_2_20220120T1999_2002011999_2001 CR_OFFL_SIR_OPN_2_20220120T1999_2002011999_2001 CR_OFFL_SIR_OPN_2_20220120T1999_2002011999_2001 CR_OFFL_SIR_OPN_2_20220120T1999_2002011999_2001 CR_OFFL_SIR_OPN_2_20220120T1999_2002011999_2001 CR_OFFL_SIR_OPN_2_20220120T1999_2002011999_2001 CR		OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records The OCOG Range and Backscatter Quality Flags have been set for one or
CB_OPFL_SRI_OPFL_2_20220120T08063_20220120T08053_COOI	CS_OFFL_SIR_IOPN_2_202201201004507_202201201004617_C001	OCOG Backscatter Quality	more records
OCCG Backscatter Clustry OCCG Attinuter Range Guality PLRM. OCCG Backscatter Clustry The OCCG Range and Backscatter Quality Flags have been set for a more incords The OCCG Range and Backscatter Quality Flags have been set for a more incords The OCCG Range and Backscatter Quality Flags have been set for a more incords The OCCG Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range Guality PLRM. OCCG Backscatter Quality Flags have been set for a more incords The OCCG Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range SIAL SWH and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range SIAL SWH and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range SIAL SWH and Backscatter Quality Flags have been set for a more incords The OCCG Attinuter Range Quality FLRM. OCCG Backscatter Quality Flags have been set for a mor	CS_OFFL_SIR_IOPN_2_20220120T071719_20220120T071858_C001	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 set for one or more records
OCOG Backscater Cuality FISA OFFL_SIR_IOPN_2_202201201098494_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_202201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_200201201098524_0001 OCS_OFFL_SIR_IOPN_2_202201201098500_20001 OCOG Backscater Cuality FIRA_OCOG_Ablined Finage and Backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for off company of the firage and backscater Cuality Firage have been set for one or more records. CS_OFFL_SIR_IOPN_2_202201201112352_022011201112456_0001 OCS_OFFL_SIR_IOPN_2_202201201112352_022011201112456_0001 OCS_OFFL_SIR_IOPN_2_202201201112352_02001120112352_0001 OCS_OFFL_SIR_IOPN_2_202201201112352_0001 OCS_OFFL_SIR_IOPN_2_202201201131434_02020120113352_0001 OCS_OFFL_SIR_IOPN_2_202201201131434_02020120113352_0001 OCS_OFFL_SIR_IOPN_2_202201201131434_02020120113352_0001 OCS_OFFL_SIR_IOPN_2_20220120113434_020201201137521_0001 OCS_OFFL_SIR_IOPN_2_20220120113434_020201201137521_0001 OCS_OFFL_SIR_IOPN_2_20220120113434_020201201137520_0001 OCS_OFFL_SIR_IOPN_2_20220120113434_020201201137520_0001 OCS_OFFL_SIR_IOPN_2_20220120113434_020201201137520_0001 OCS_OFFL_SIR_IOPN_2_20220120113434_020201201137520_0001 OCS_OFFL_SIR_IOPN			The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Backscatter Quality PLRM. OCS OFFL_SIR_JOPN_2_20220120T093909_20220120T093924_CO01 OCS OFFL_SIR_JOPN_2_20220120T0939309_20220120T094941_CO01 OCS OFFL_SIR_JOPN_2_20220120T094933_20220120T094941_CO01 OCS OFFL_SIR_JOPN_2_20220120T094933_20220120T094941_CO01 OCS OFFL_SIR_JOPN_2_20220120T102798_20220120T102909_CO01 OCS OFFL_SIR_JOPN_2_20220120T10112200_20220120T102909_CO01 OCS OFFL_SIR_JOPN_2_20220120T102798_20220120T102909_CO01 OCS OFFL_SIR_JOPN_2_20220120T102798_20220120T102909_CO01 OCS OFFL_SIR_JOPN_2_20220120T102798_20220120T102909_CO01 OCS OFFL_SIR_JOPN_2_20220120T102798_20220120T102909_CO01 OCS OFFL_SIR_JOPN_2_20220120T102909_CO01 OCS OFFL_SIR_JOPN_2_20220120T103909_CO01 OCS OFFL_SIR_JOPN_2_20220120T10390			The OCOG Range and Backscatter Quality Flags have been set for one or more records
and flackscater Quality FLRM, OCOS Allemeter Range, SSHA, SVH and Backscatter Quality Flags have been set for core or nor records. CS_OFFL_SIR_JOPN_2_20220120T1094633_20220120T1094691_CO01 CS_OFFL_SIR_JOPN_2_20220120T1094533_20220120T1094691_CO01 CS_OFFL_SIR_JOPN_2_20220120T1094533_20220120T1094691_CO01 CS_OFFL_SIR_JOPN_2_20220120T1094533_20220120T1109469_CO01 CS_OFFL_SIR_JOPN_2_20220120T109453_20220120T111457_CO01 Allemeter Range and Backscatter Quality Flags have been set for core or nor records. CS_OFFL_SIR_JOPN_2_20220120T113186_20220120T11426_CO01 CS_OFFL_SIR_JOPN_2_20220120T112286_CO020120T112624_CO01 CS_OFFL_SIR_JOPN_2_20220120T1120582_20220120T1126286_CO01 CS_OFFL_SIR_JOPN_2_20220120T109582_20220120T120584_CO01 CS_OFFL_SIR_JOPN_2_20220120T131490_20220120T132586_CO01 CS_OFFL_SIR_JOPN_2_20220120T131490_20220120T132586_CO01 CS_OFFL_SIR_JOPN_2_20220120T131490_20220120T133841_CO01 CS_OFFL_SIR_JOPN_2_20220120T131490_20220120T133841_CO01 CS_OFFL_SIR_JOPN_2_20220120T133414_20220120T133841_CO01 CS_OFFL_SIR_JOPN_2_20220120T13441_20220120T133841_CO01 CS_OFFL_SIR_JOPN_2_20220120T13441_20220120T134571_CO01 CS_OFFL_SIR_JOPN_2_20220120T13441_20220120T134571_CO01 CS_OFFL_SIR_JOPN_2_20220120T13441_20220120T133841_CO01 CS_OFFL_SIR_JOPN_2_20220120T13441_20220120T134571_CO01 CS_OFFL_SIR_JOPN_2_20220120T13441_20220120T134571_CO01 CS_OFFL_SIR_JOPN_2_20220120T13441_20220120T134571_CO01 CC_OCA Alleme			The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscattler Quality PLRM. CS_OFFL_SIR_JOPN_2_20220120T102768_20220120T102900_C001 CS_OFFL_SIR_JOPN_2_20220120T102768_20220120T102900_C001 CS_OFFL_SIR_JOPN_2_20220120T11316_20220120T11457_C001 CS_OFFL_SIR_JOPN_2_20220120T11316_20220120T11457_C001 CS_OFFL_SIR_JOPN_2_20220120T112205_20220120T11457_C001 CS_OFFL_SIR_JOPN_2_20220120T102552_20220120T112202_C001 CS_OFFL_SIR_JOPN_2_20220120T102552_20220120T102520_C001 CS_OFFL_SIR_JOPN_2_20220120T102552_20220120T102520_C001 CS_OFFL_SIR_JOPN_2_20220120T131430_20220120T102520_C001 CS_OFFL_SIR_JOPN_2_20220120T102147_20220120T102520_C001 CS_OFFL_SIR_JOPN_2_20220120T1031430_20220120T10300_C001 CS_OFFL_SIR_JOPN_2_20220120T10300_C001 CS_OFFL_SIR_JOPN_2_20220120T103000_C001 CS_OFFL_SIR_JOPN_2_20220120T103000_C001 CS_OFFL_SIR_JOPN_2_20220120T103000_C001 CS_OFFL_SIR_JOPN_2_20220120T103000_C001 CS_OFFL_SIR_JOPN_2_20220120T103000_C001 CS_OFFL_SIR_JOPN_2_20220120T103000_C001 CS_OFFL_SIR_JOPN_2_20220120T104201_20220120T104000_C001 CS_OFFL_SIR_JOPN_2_20220120T104000_C001 CS_OFFL_SIR_JOPN_2_20220120T104000_C001 CS_OFFL_SIR_JOPN_2_20220120T104000_C001 CS_OFFL_SIR_JOPN_2_20220120T104000_C001 CS_OFFL_SIR_JOPN_2_20220120T104000_C001 CS_OFFL_SIR_JOPN_2_20220120T1040000000000000000000000000000	CS_OFFL_SIR_IOPN_2_20220120T093509_20220120T093824_C001	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 set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T11316_20220120T11426_C001 CS_OFFL_SIR_IOPN_2_20220120T11236_20220120T112426_C001 CS_OFFL_SIR_IOPN_2_20220120T120552_20220120T120824_C001 CS_OFFL_SIR_IOPN_2_20220120T122147_20220120T120824_C001 CS_OFFL_SIR_IOPN_2_20220120T1213439_20220120T13080_C001 CS_OFFL_SIR_IOPN_2_20220120T131439_20220120T132821_C001 CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T13441_20220120T132525_C001 CCGG Allimeter Range Cuality PLRM, COGG Allimeter Range and Backscatter Quality Flags have been set for concern more records The Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for concern more records The Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for concern more records The Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for concern more records The Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for concern more records The Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for concern more records The Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for concern more records CS_OFFL_SIR_IOPN_2_20220120T131439_20220120T132521_C001 CS_OFFL_SIR_IOPN_2_20220120T133919_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T133919_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134521_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134521_C001 CS_OFFL_SIR_IOPN_2_20220120T1541241_20220120T134521_C001 CS_OFFL_SIR_IOPN_2_20220120T1541241_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T1541241_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T1541241_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T1541241_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T1541241_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_202	CS_OFFL_SIR_IOPN_2_20220120T094533_20220120T094641_C001	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 set for one or more records
GS_OFFL_SIR_IOPN_2_20220120T11316_20220120T11457_C001 and Backscatter Quality PLRM. CCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM. CCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM. CCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM. CCOG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one records. CS_OFFL_SIR_IOPN_2_20220120T120552_20220120T120824_C001 CS_OFFL_SIR_IOPN_2_20220120T120552_20220120T120824_C001 CS_OFFL_SIR_IOPN_2_20220120T120552_20220120T120824_C001 CS_OFFL_SIR_IOPN_2_20220120T131439_20220120T12256_C001 CS_OFFL_SIR_IOPN_2_20220120T131439_20220120T131806_C001 CS_OFFL_SIR_IOPN_2_20220120T131439_20220120T131806_C001 CS_OFFL_SIR_IOPN_2_20220120T131440_20220120T132521_C001 CS_OFFL_SIR_IOPN_2_20220120T131440_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T13530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T154521_C001 CCCG_Allimeter Range_SSHA_SWH and Backscatter Quality Flag			The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T112236_20220120T112426_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM of the COGO Altimeter Range and Backscatter Quality Plags have been set for one records CS_OFFL_SIR_IOPN_2_20220120T122147_20220120T122526_C001 CS_OFFL_SIR_IOPN_2_20220120T12147_20220120T122526_C001 CS_OFFL_SIR_IOPN_2_20220120T131439_20220120T131806_C001 CS_OFFL_SIR_IOPN_2_20220120T131449_20220120T132521_C001 CS_OFFL_SIR_IOPN_2_20220120T131840_20220120T133541_C001 CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134525_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134525_C001 CS_OFFL_SIR_IOPN_2_20220120T1344241_20220120T134525_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134525_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134525_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C0	CS_OFFL_SIR_IOPN_2_20220120T111316_20220120T111457_C001	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 set for one or more records
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, OCO	CS_OFFL_SIR_IOPN_2_20220120T112236_20220120T112426_C001	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 set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T131439_20220120T131806_C001 CS_OFFL_SIR_IOPN_2_20220120T131940_20220120T131806_C001 CS_OFFL_SIR_IOPN_2_20220120T131940_20220120T132521_C001 OCGA Altimeter Range Quality PLRM, OCGA Altimeter Range SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGA Altimeter Range Quality PLRM, OCGA Altimeter Range and Backscatter Quality PLRM, OCGA Altimeter Range Quality PLRM, OCGA Altimeter Range Quality PLRM, OCGA Altimet	CS_OFFL_SIR_IOPN_2_20220120T120552_20220120T120824_C001	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 set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T131940_20220120T132521_C001 CS_OFFL_SIR_IOPN_2_20220120T131940_20220120T132521_C001 CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T13425_C001 CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T13425_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T155653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T174136_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T174136_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T174136_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T174136_20220120T170223_C001 CCS_OFFL_SIR_IOPN_2_20220120T174136_20220120T170223_C001 CCS_OFFL_SIR_IOPN_2_20220120T174136_20220120T170223_C001 CCS_OFFL_SIR_IOPN_2_20220120T17615653_20220120T170223_C001 CCS_OFFL_			The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Backscatter Quality CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T143425_C001 CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T143425_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T166653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T166653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T166653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T1771136_2020120T17171220_C001 CS_OFFL_SIR_IOPN_2_20220120T1771136_2020120T17171220_C001 CS_OFFL_SIR_IOPN_2_20220120T1771136_2020120T17171220_C001 CCOG Altimeter Range Quality PLRM, CCOG Backscatter Q			The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001 CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T13425_C001 CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T143425_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for comore records CCOG Backscatter Quality PLRM, OCOG Backscatter Quality P	CS_OFFL_SIR_IOPN_2_202201201131940_202201201132521_C001	OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T143425_C001 CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T143425_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120	CS_OFFL_SIR_IOPN_2_20220120T133819_20220120T133941_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
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, 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 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and Backscatter Quality Flags have been set for component of the OCOG Range and	CS_OFFL_SIR_IOPN_2_20220120T134241_20220120T134707_C001	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 set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001 CS_OFFL_SIR_IOPN_2_20220120T154121_20220120T154521_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T165653_20220120T170223_C001 CS_OFFL_SIR_IOPN_2_20220120T171136_20220120T171229_C001	CS_OFFL_SIR_IOPN_2_20220120T143141_20220120T143425_C001	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 set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T194121_20220120T194921_C001 OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for Compared to the Cooperation of the Cooperatio	CS_OFFL_SIR_IOPN_2_20220120T152142_20220120T152530_C001	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 set for one or more records
OCOG Backscatter Quality more records OCOG Backscatter Quality more records OCOG Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range and Backscatter Quality Flags have been set for Cog Range Range Quality Flags have been set for Cog Range Range Range Quality Flags have been set for Cog Range R			The OCOG Range and Backscatter Quality Flags have been set for one or more records
			The OCOG Range and Backscatter Quality Flags have been set for one or more records
			The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T180040_20220120T180153_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one records			The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T183810_20220120T183944_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for of more records			The OCOG Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_IOPN_2_20220120T184022_20220120T184156_C001	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 set for one or more records
	CS_OFFL_SIR_IOPN_2_20220120T190027_20220120T190207_C001	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 set for one or more records

	Ocean Altimeter Range, SSHA, SWH	L
CS_OFFL_SIR_IOPN_2_20220120T193044_20220120T193209_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220120T193729_20220120T194036_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_IOPN_2_20220120T203912_20220120T203921_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_IOPN_2_20220120T204615_20220120T204947_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_IOPN_2_20220120T211029_20220120T211313_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_IOPN_2_20220120T220741_20220120T220812_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_IOPN_2_20220120T225108_20220120T225343_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_IOPN_2_20220120T233131_20220120T233313_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_IOPN_2_20220120T234615_20220120T234735_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_IOPR_2_20220120T003018_20220120T003341_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_IOPR_2_20220120T003341_20220120T003653_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_IOPR_2_20220120T004553_20220120T004748_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_IOPR_2_20220120T014738_20220120T015527_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_IOPR_2_20220120T015530_20220120T015552_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_IOPR_2_20220120T020952_20220120T021612_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_IOPR_2_20220120T034730_20220120T034949_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_IOPR_2_20220120T034730_20220120T034949_C001 CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001 CS_OFFL_SIR_IOPR_2_20220120T035137_20220120T035618_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001 CS_OFFL_SIR_IOPR_2_20220120T035137_20220120T035618_C001 CS_OFFL_SIR_IOPR_2_20220120T052838_20220120T053820_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM,	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001 CS_OFFL_SIR_IOPR_2_20220120T035137_20220120T035618_C001 CS_OFFL_SIR_IOPR_2_20220120T052838_20220120T053820_C001 CS_OFFL_SIR_IOPR_2_20220120T063533_20220120T063909_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
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CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001 CS_OFFL_SIR_IOPR_2_20220120T035137_20220120T035618_C001 CS_OFFL_SIR_IOPR_2_20220120T052838_20220120T053820_C001 CS_OFFL_SIR_IOPR_2_20220120T063533_20220120T063909_C001 CS_OFFL_SIR_IOPR_2_20220120T070217_20220120T070541_C001 CS_OFFL_SIR_IOPR_2_20220120T070932_20220120T071719_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean 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 Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001 CS_OFFL_SIR_IOPR_2_20220120T035137_20220120T035618_C001 CS_OFFL_SIR_IOPR_2_20220120T052838_20220120T053820_C001 CS_OFFL_SIR_IOPR_2_20220120T063533_20220120T063909_C001 CS_OFFL_SIR_IOPR_2_20220120T070217_20220120T070541_C001 CS_OFFL_SIR_IOPR_2_20220120T070932_20220120T071719_C001 CS_OFFL_SIR_IOPR_2_20220120T0709383836_20220120T084142_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220120T035006_20220120T035102_C001 CS_OFFL_SIR_IOPR_2_20220120T035137_20220120T035618_C001 CS_OFFL_SIR_IOPR_2_20220120T052838_20220120T053820_C001 CS_OFFL_SIR_IOPR_2_20220120T063533_20220120T063909_C001 CS_OFFL_SIR_IOPR_2_20220120T070217_20220120T070541_C001 CS_OFFL_SIR_IOPR_2_20220120T070932_20220120T071719_C001 CS_OFFL_SIR_IOPR_2_20220120T083836_20220120T084142_C001 CS_OFFL_SIR_IOPR_2_20220120T084955_20220120T085748_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPR_2_20220120T114353_20220120T114512_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_IOPR_2_20220120T120236_20220120T120551_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_IOPR_2_20220120T120824_20220120T121532_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_IOPR_2_20220120T123545_20220120T123733_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_IOPR_2_20220120T133941_20220120T134155_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_IOPR_2_20220120T134707_20220120T135428_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_IOPR_2_20220120T144356_20220120T144501_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_IOPR_2_20220120T152530_20220120T153412_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_IOPR_2_20220120T170224_20220120T171001_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_IOPR_2_20220120T171310_20220120T171432_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_IOPR_2_20220120T171934_20220120T172026_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_IOPR_2_20220120T183944_20220120T184022_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_IOPR_2_20220120T184156_20220120T184819_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_IOPR_2_20220120T184820_20220120T185114_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_IOPR_2_20220120T191923_20220120T191935_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_IOPR_2_20220120T201757_20220120T201951_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_IOPR_2_20220120T202014_20220120T202719_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_IOPR_2_20220120T203358_20220120T203734_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_IOPR_2_20220120T204005_20220120T204114_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_IOPR_2_20220120T215957_20220120T220118_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_IOPR_2_20220120T220619_20220120T220740_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_IOPR_2_20220120T224408_20220120T225108_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_IOPR_2_20220120T233400_20220120T233416_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:

205

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

> Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

54

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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

155

6. IOP L2 Pole-to-Pole Data Quality Check

6.1 P2P 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

6.2 P2P 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

6.3 P2P 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.

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > 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: 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220119T234552_20220120T003528_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)
CS_OFFL_SIR_IOP_2_20220120T003528_20220120T012507_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 tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20220120T012507_20220120T021442_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)
CS_OFFL_SIR_IOP_220220120T021442_20220120T030422_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)
CS_OFFL_SIR_IOP_220220120T030422_20220120T035357_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)
CS_OFFL_SIR_IOP_220220120T035357_20220120T044336_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)
CS_OFFL_SIR_IOP_220220120T044336_20220120T053312_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)
CS_OFFL_SIR_IOP_220220120T053312_20220120T062251_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)
CS_OFFL_SIR_IOP_2_20220120T062251_20220120T071226_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)
CS_OFFL_SIR_IOP_220220120T071226_20220120T080206_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)
CS_OFFL_SIR_IOP_220220120T080206_20220120T085141_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)
CS_OFFL_SIR_IOP_220220120T085141_20220120T094120_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)
CS_OFFL_SIR_IOP_220220120T094120_20220120T103056_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220220120T103056_20220120T112035_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)
CS_OFFL_SIR_IOP_220220120T112035_20220120T121010_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)
CS_OFFL_SIR_IOP_220220120T121010_20220120T125949_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)
CS_OFFL_SIR_IOP_220220120T125949_20220120T134925_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records

CS_OFFL_SIR_IOP_220220120T134925_20220120T143904_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)
CS_OFFL_SIR_IOP_220220120T143904_20220120T152840_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)
CS_OFFL_SIR_IOP_220220120T152840_20220120T161819_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)
CS_OFFL_SIR_IOP_220220120T161819_20220120T170754_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)
CS_OFFL_SIR_IOP_220220120T170754_20220120T175734_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)
CS_OFFL_SIR_IOP_220220120T175734_20220120T184709_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)
CS_OFFL_SIR_IOP_220220120T184709_20220120T193648_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)
CS_OFFL_SIR_IOP_220220120T193648_20220120T202624_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)
CS_OFFL_SIR_IOP_220220120T202624_20220120T211603_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)
CS_OFFL_SIR_IOP_220220120T211603_20220120T220538_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)
CS_OFFL_SIR_IOP_220220120T220538_20220120T225518_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)
CS_OFFL_SIR_IOP_220220120T225518_20220120T234453_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)
CS_OFFL_SIR_IOP_220220120T234453_20220121T003432_C002	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)

6.5 P2P Measurement Confidence Data Check

CryoSat P2P 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:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

P2P Quality Flags (20 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 2

P2P Quality Flags (1 Hz & 1 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20 Hz 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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 24

P2P Retracking Flags 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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 30

7. IOP 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_IOPM1B	215	215	2	213	0
SIR_IOPR1B	134	109	4	105	0
SIR_IOPN1B	109	134	0	134	0
SIR_IOPM_2	215	215	155	60	0
SIR_IOPR_2	134	109	37	72	0
SIR_IOPN_2	109	134	47	85	2
SIR IOP P2P	29	29	0	27	2

7.1 QCC Errors

Number of QCC reports with errors:

Product Type RLOBOPNCDF

12

	Total number	of occurrences	of each error				
F	RL	RL	-	-	-	-	-
		•					

duct Type RLOB	OPNCDF	٦L	RLOBOPNCDF	RL	-	-	-	_	-	-	-
R IOP 2	2	2	2	2							
					1						
Description Key	<i>'</i> :										
reviation	Test name			Details							
BOPNCDF	RangeLatitudeO	rBlankOP_	7NetCDF	Latitude should b	e between -90E7 a	nd 90E7					
	RangeLatitude_6	6		Latitude should b	e between -90E6 a	nd 90E6					
	RangeLatitude_7	,		Latitude should b	e between -90E7 a	nd 90E7					
BOPNCDF	RangeLongitude	OrBlankOF	P_7NetCDF	Longitude should	be between -180E	7 and 180E7					
	RangeLongitude	_6		Longitude should	be between -180E	6 and 180E6					
	RangeLongitude	_7		Longitude should	be between -180E	7 and 180E7					
QCC Warni	ngs										
QCC Warni	ngs										
QCC Warni		s	2287								
nber of QCC repo	orts with warning	s				ber of occurrence					
nber of QCC repo	BCSHNCDF	s	2287	MVIOEI	Total num	ber of occurrence	es of each warn		RBSZOPOEPFDNO	CDF RBS	ZOPOEPFDPLRMNO
Product Type SIR_IOPM1B	BCSHNCDF	s		0		MVIOEPNCDF 0			0	CDF RBS	ZOPOEPFDPLRMN
Product Type SIR_IOPM1B SIR_IOPM_2	BCSHNCDF 213 0	s	IOHHMOOR			MVIOEPNCDF 0 39	MVIONCI		0 52	0	ZOPOEPFDPLRMN
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B	BCSHNCDF 213 0 103	s	IOHHMOOR 0 0	0 37 0		MVIOEPNCDF 0 39 0	0 1 0		0 52 0	0 0 0	ZOPOEPFDPLRMNI
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN1B SIR_IOPN_2	BCSHNCDF 213 0 103 0	s	IOHHMOOR	0 37 0 6		0 39 0 37	0 1 0 4		0 52 0 31	0 0 0 0 33	ZOPOEPFDPLRMNI
Product Type SIR_IOPM1B SIR_IOPM2 SIR_IOPN1B SIR_IOPN2 SIR_IOPN1B SIR_IOPN2	BCSHNCDF 213 0 103 0 132	s	0 0 0 0 0 0	0 37 0 6		0 39 0 37 0	0 1 0 4 0		0 52 0 31	0 0 0 33 0	ZOPOEPFDPLRMN
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN1B SIR_IOPN_2	BCSHNCDF 213 0 103 0	S	IOHHMOOR	0 37 0 6		0 39 0 37	0 1 0 4		0 52 0 31	0 0 0 0 33	ZOPOEPFDPLRMNI
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPN_2 SIR_IOPR_1B SIR_IOPR_2	BCSHNCDF 213 0 103 0 132 0 0 132 0 0 132 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 2	0 37 0 6 0 27	PFDNCDF	MVIOEPNCDF 0 39 0 37 0 48	0 1 0 4 0 0	DF.	0 52 0 31 0 35	0 0 0 33 0 26	
Product Type SIR_IOPM1B SIR_IOPM2 SIR_IOPN1B SIR_IOPN2 SIR_IOPR1B SIR_IOPR2 Product Type	BCSHNCDF 213 0 103 0 132 0 RBSZOPOEPNG		IOHHMOOR 0 0 0 0 0 2 RNELPOTONCDF	0 37 0 6 0 27		MVIOEPNCDF 0 39 0 37 0 48 RPEPOPFDPLRMS	0 1 0 4 0 0 0	DF.	0 52 0 31 0 35	0 0 0 33 0 26	ZOPOEPFDPLRMNI
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPN_2 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B	BCSHNCDF 213 0 103 0 132 0 RBSZOPOEPNO 0		0 0 0 0 0 0 0 2	0 37 0 6 0 27	PFDNCDF	MVIOEPNCDF 0 39 0 37 0 48	MVIONCI 0 1 0 4 0 0 0 0 SARNCI RPEPOPI	DF.	0 52 0 31 0 35	0 0 0 33 0 26	
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B	BCSHNCDF 213 0 103 0 132 0 RBSZOPOEPNG 0 42		IOHHMOOR 0 0 0 0 0 0 2 RNELPOTONCDF 0 1	0 37 0 6 0 27 RPEPO 0 32	PFDNCDF	MVIOEPNCDF 0 39 0 37 0 48	MVIONCI 0 1 0 4 0 0 0 0 SARNCI RPEPOPI 0 0	DF.	0 52 0 31 0 35 0 (RPEPOPFDSARNI) 0 0	0 0 0 33 0 26 CDF RPE 0 0	
Product Type SIR_IOPM1B SIR_IOPM2 SIR_IOPN1B SIR_IOPN1B SIR_IOPR12 SIR_IOPR1B SIR_IOPR2 Product Type SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B	BCSHNCDF 213		IOHHMOOR 0 0 0 0 0 2 RNELPOTONCDF	0 37 0 6 0 27 RPEPO 0 32 0	PFDNCDF	MVIOEPNCDF 0 39 0 37 0 48	MVIONCI 0 1 0 4 0 0 0 0 SARNCI RPEPOPI 0 0	DF.	0 52 0 31 0 35 DIRPEPOPFDSARNI 0 0	0 0 0 33 0 26 CDF RPE 0 0 0	
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN1B SIR_IOPN1B SIR_IOPR1B SIR_IOPR1B SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B SIR_IOPN1B SIR_IOPN1B	BCSHNCDF 213 0 103 0 132 0		IOHHMOOR	0 37 0 6 0 27 RPEPO 0 32 0	PFDNCDF	MVIOEPNCDF 0 39 0 37 0 48	MVIONCI 0 1 0 4 0 0 0 0 0 0 0 0 0 0	DF.	0 52 0 31 0 35 (RPEPOPFDSARNI 0 0 0	0 0 0 33 0 26 CDF RPE 0 0 0 0 37	
Product Type SIR_IOPM1B SIR_IOPM2 SIR_IOPN1B SIR_IOPN1B SIR_IOPR12 SIR_IOPR1B SIR_IOPR2 Product Type SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B SIR_IOPM1B	BCSHNCDF 213		IOHHMOOR 0 0 0 0 0 0 2 RNELPOTONCDF 0 1	0 37 0 6 0 27 RPEPO 0 32 0	PFDNCDF	MVIOEPNCDF 0 39 0 37 0 48	MVIONCI 0 1 0 4 0 0 0 0 SARNCI RPEPOPI 0 0	DF.	0 52 0 31 0 35 DIRPEPOPFDSARNI 0 0	0 0 0 33 0 26 CDF RPE 0 0 0	

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	28	0	0	5	23	0	3
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	28	16	51	57	33
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	44	0	1	64	36	14

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	1	0	0	0
SIR_IOPM_2	34	0	1	1	0	0	0
SIR_IOPN1B	0	0	0	0	0	51	3
SIR_IOPN_2	26	30	18	0	0	0	0
SIR_IOPR1B	0	0	0	0	0	134	12
SIR_IOPR_2	34	47	3	0	6	0	0

_								
	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
	SIR_IOP_2_	16	28	29	3	29	18	29
		•		,	*	*	,	,
	Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
	SIR IOP 2	2	18	27	17	16	29	17

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•
SIR IOP 2	25	27	19	14	29		

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
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				
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		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0