

1. Overview

Report Production:	27-Mar-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

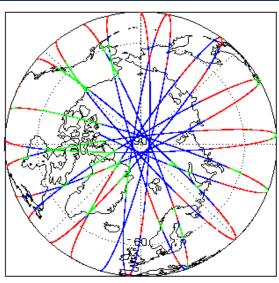
We would love to hear from you!

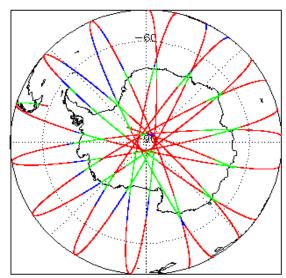
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

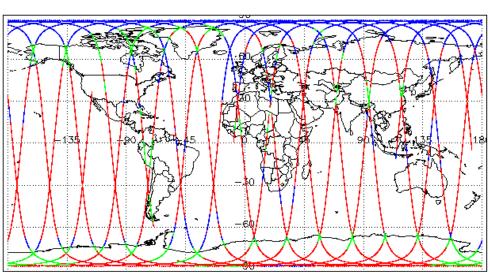
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
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

N	lission / Instru	ment News
	21-Mar-2023	None
	22-Mar-2023	None
	23-Mar-2023	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

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.

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.

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20230322T023136_20230322T024558_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20230322T203142_20230322T205025_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. The table provides the full list of products flagged.

Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR IOPM1B 20230322T030210 20230322T031542 C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230322T163424_20230322T163907_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230322T203142_20230322T205025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230322T021058_20230322T021216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230322T075826_20230322T075949_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230322T151526_20230322T151742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230322T165105_20230322T165617_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230322T193051_20230322T193213_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230322T200708_20230322T201134_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230322T201917_20230322T201953_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230322T035523_20230322T035726_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230322T101808_20230322T102646_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230322T134803_20230322T135307_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230322T143347_20230322T143952_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230322T150730_20230322T151242_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230322T202217_20230322T202417_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230322T232923_20230322T233638_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:

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:

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: 50		
Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20230322T011149_20230322T011426_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_20230322T011620_20230322T012203_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_20230322T020706_20230322T020826_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_20230322T025012_20230322T025325_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_20230322T034617_20230322T034724_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_20230322T042922_20230322T043123_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_20230322T052532_20230322T053119_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_20230322T060855_20230322T061013_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T074816_20230322T074936_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T092805_20230322T093131_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_20230322T101435_20230322T101522_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T102646_20230322T102916_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T110711_20230322T111031_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_20230322T111549_20230322T111712_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T115654_20230322T115923_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: IFES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20230322T125441_20230322T125557_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_20230322T133722_20230322T133827_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_20230322T143147_20230322T143347_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_20230322T151526_20230322T151742_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_20230322T165105_20230322T165617_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T182901_20230322T183440_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_20230322T192033_20230322T192157_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T210035_20230322T210159_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T210957_20230322T211109_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T214914_20230322T215101_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T224007_20230322T224133_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230322T224647_20230322T224950_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_20230322T001956_20230322T002705_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_20230322T002706_20230322T004207_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_20230322T015950_20230322T020557_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_20230322T020557_20230322T020705_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_20230322T024822_20230322T025011_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230322T033935_20230322T034346_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_20230322T034346_20230322T034617_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_20230322T052002_20230322T052531_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_20230322T070048_20230322T070549_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_20230322T083803_20230322T084750_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_20230322T101808_20230322T102646_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_20230322T115924_20230322T120649_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_20230322T133827_20230322T134531_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_20230322T151742_20230322T152432_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_20230322T165617_20230322T170238_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_20230322T183441_20230322T183518_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_20230322T183518_20230322T184418_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_20230322T201134_20230322T201917_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_20230322T215101_20230322T215739_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_20230322T215739_20230322T220032_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_20230322T232923_20230322T233638_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_20230322T233639_20230322T233852_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_20230322T234237_20230322T234833_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230322T023136_20230322T024558_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20230322T203142_20230322T205025_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20230321T234226_20230322T001643_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230322T004207_20230322T010450_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_20230322T012301_20230322T013210_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_20230322T013212_20230322T013540_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_20230322T013702_20230322T013754_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_20230322T013848_20230322T014040_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_20230322T014521_20230322T015331_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_20230322T021240_20230322T022941_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_20230322T023136_20230322T024558_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_20230322T025325_20230322T025531_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_20230322T025627_20230322T030033_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_20230322T030210_20230322T031542_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_20230322T031948_20230322T032910_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_20230322T033525_20230322T033935_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_20230322T034724_20230322T034816_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_20230322T035727_20230322T040837_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_20230322T041407_20230322T042850_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_20230322T043124_20230322T043936_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_20230322T044129_20230322T045748_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_20230322T054035_20230322T060741_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_20230322T061255_20230322T061812_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_20230322T062047_20230322T064604_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_20230322T071736_20230322T074627_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_20230322T075222_20230322T075826_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_20230322T075950_20230322T082742_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_20230322T083627_20230322T083803_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_20230322T085137_20230322T092604_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_20230322T093131_20230322T093658_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_20230322T093826_20230322T094449_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_20230322T100844_20230322T101000_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_20230322T101541_20230322T101808_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_20230322T103108_20230322T103934_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_20230322T104218_20230322T110526_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_20230322T111032_20230322T111136_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_20230322T111140_20230322T111549_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_20230322T111726_20230322T113726_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_20230322T120942_20230322T124317_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_20230322T124559_20230322T125035_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_20230322T130137_20230322T133259_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_20230322T133439_20230322T133721_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_20230322T135308_20230322T140013_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_20230322T140803_20230322T142240_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_20230322T142417_20230322T142934_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_20230322T143952_20230322T145314_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_20230322T145528_20230322T145656_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_20230322T145722_20230322T150730_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_20230322T153452_20230322T154516_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_20230322T160344_20230322T160846_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_20230322T162323_20230322T162946_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

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CS_OPPL_SIR_JOPPL_2_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812_02200227174812	CS_OFFL_SIR_IOPM_2_20230322T164150_20230322T164738_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backetter Custily CS_OFFL_SRI_IOM_2_20200221715401_20200221715100_C010 CS_OFFL_SRI_IOM_2_20200221715401_20200221710200_C010 CS_OFFL_SRI_IOM_2_20200221715401_20200221710200_C010 CS_OFFL_SRI_IOM_2_20200221715401_20200221710200_C010 CS_OFFL_SRI_IOM_2_20200221715401_20200221710200_C010 CS_OFFL_SRI_IOM_2_20200221710210_20200221710200_C010 CS_OFFL_SRI_IOM_2_20200221710200_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_2020022171010_C010 CS_OFFL_SRI_IOM_2_20200221721010_C010 CS_OFFL_SRI_IOM_2_20200221721010_C	CS_OFFL_SIR_IOPM_2_20230322T171840_20230322T174103_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
bedacation Caulty Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality Flags and the Cooper All Finance Range, SISHA, SWH and Backscatter Quality and Backscatter	CS_OFFL_SIR_IOPM_2_20230322T174413_20230322T174804_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_7620022719454_020022719210_CD01 Ober Batheset Reging - SSAM, SWH and Backscatter Quality Regin have been self-control on excess and control of the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Backscatter Quality Regin have been self-control on the COOCA Millimeter Reging and Bac	CS_OFFL_SIR_IOPM_2_20230322T174825_20230322T175100_C001	0 7.	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
or S. OFFL SIR JOPM 2 20230322T192195 2023032T192195 (2023032T192195 2023032T192195 (2023032T192195 2023032T192195 2023032T192195 2023032T192195 (2023032T192195 2023032T192195 (2023032T192195 2023032T192195 (2023032T192195 2023032T192195 (2023032T192195	CS_OFFL_SIR_IOPM_2_20230322T175401_20230322T182208_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sackscatter Quality of cone or more records OS_OFFL_SIR_IOPM_2_20230322T102755_20230322T130051_C001 Doesn Allimeter Range_SIR_SIM_SIM and Backscatter Quality Flags have been set for one or more records OS_OFFL_SIR_IOPM_2_20230322T193309_20230322T200707_C001 Allimeter Range_SIR_SIM_SIM_set flackscatter Quality Flags have been set for one or more records OS_OFFL_SIR_IOPM_2_20230322T205142_20230322T200707_C001 Allimeter Range_SIR_SIM_SIM_set flackscatter Quality Flags have been set for one or more records OS_OFFL_SIR_IOPM_2_20230322T205142_20230322T200707_C001 OS_OFFL_SIR_IOPM_2_20230322T205142_20230322T200707_C001 OS_OFFL_SIR_IOPM_2_20230322T205142_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T210542_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T21069_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T21069_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T211069_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T211069_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T211069_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T211069_20230322T210067_C001 OS_OFFL_SIR_IOPM_2_20230322T211069_20230322T21007006_Allimeter Range_sid_Sid_Sid_Sid_Sid_Sid_Sid_Sid_Sid_Sid_S	CS_OFFL_SIR_IOPM_2_20230322T185459_20230322T192033_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Pic OCOG Allimeter Range and Backscatter Quality Figs and Backscatter Quality COG Cog Figs Sir JoPM 2 20230322712103 20230322712103 2001 Coen Allimeter Range, SSHA, SWH and Backscatter Quality COG Backscatter Quality COG Coen Allimeter Range SSHA, SWH and Backscatter Quality COG Backscatter Quality COG Backscatter Quality COG Coen Allimeter Range and Backscatter Quality Figs Innove been all the COGO Allimeter Range and Backscatter Quality Figs Innove been and the COGO Allimeter Range and Backscatter Quality Figs and the COGO Allimeter Range and Backscatter Quality Figs and the COGO Allimeter Range and Backscatter Quality Figs Innove been all the COGO Allimeter Range and Backscatter Quality Figs Innove been all the COGO Allimeter Range and Backscatter Quality Figs Innove been all the COGO Allimeter Range and Backscatter Quality Figs Innove been allimeter Range and Backscatter Quality Figs Innove been allimeter Range and Backscatte	CS_OFFL_SIR_IOPM_2_20230322T192158_20230322T192719_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality CDGG and Backscatter Quality Flags have been act for core or rore frange and Backscatter Quality Flags have been set for core or rore	CS_OFFL_SIR_IOPM_2_20230322T192725_20230322T193051_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and flackscatter Quality, COC6 Altimeter Range and Backscatter Quality Flags have been adhered to the COC6 Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM_2_20230322T205349_20230322T210024_C001 CS_OFFL_SIR_JOPM_2_20230322T210159_20230322T210057_C001 CS_OFFL_SIR_JOPM_2_20230322T210159_20230322T210957_C001 CS_OFFL_SIR_JOPM_2_20230322T210159_20230322T210957_C001 CS_OFFL_SIR_JOPM_2_20230322T210159_20230322T210757_C001 CS_OFFL_SIR_JOPM_2_20230322T210159_20230322T210757_C001 CS_OFFL_SIR_JOPM_2_20230322T210159_20230322T210757_C001 CS_OFFL_SIR_JOPM_2_20230322T220032_20230322T220130_C001 CS_OFFL_SIR_JOPM_2_20230322T220032_20230322T220130_C001 CS_OFFL_SIR_JOPM_2_20230322T220032_20230322T220130_C001 CS_OFFL_SIR_JOPM_2_20230322T220032_20230322T223446_C001 CS_OFFL_SIR_JOPM_2_20230322T222828_20230322T223933_C001 CS_OFFL_SIR_JOPM_2_20230322T222828_20230322T223933_C001 CS_OFFL_SIR_JOPM_2_20230322T222828_20230322T223933_C001 CS_OFFL_SIR_JOPM_2_20230322T222828_20230322T223933_C001 CS_OFFL_SIR_JOPM_2_20230322T222828_20230322T223933_C001 CS_OFFL_SIR_JOPM_2_20230322T222828_20230322T223933_C001 CS_OFFL_SIR_JOPM_2_20230322T222828_20230322T223467_C001 CS_OFFL_SIR_JOPM_2_20230322T222383_20230322T223467_C001 CS_OFFL_SIR_JOPM_2_20230322T223335_C00322T23469_C001 CS_OFFL_SIR_JOPM_2_20230322T223335_C00322T233459_C001 CS_OFFL_SIR_JOPM_2_20230322T223335_C00322T233459_C001 CS_OFFL_SIR_JOPM_2_20230322T223355_20230322T233459_C001 CS_OFFL_SIR_JOPM_2_20230322T223355_20230322T233355_C001 CS_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CS_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CS_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CC_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CC_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CC_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CC_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CC_OFFL_SIR_JOPM_2_20230322T233355_20230322T233355_C001 CC_OFFL_SIR_JOPM_2_20230322T233355_20	CS_OFFL_SIR_IOPM_2_20230322T193309_20230322T200707_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set GS_OFFL_SIR_IOPM_2_20230322T210159_20230322T210957_C001 CS_OFFL_SIR_IOPM_2_20230322T211241_20230322T214702_C001 CS_OFFL_SIR_IOPM_2_20230322T211241_20230322T214702_C001 CS_OFFL_SIR_IOPM_2_20230322T21241_20230322T214702_C001 CS_OFFL_SIR_IOPM_2_20230322T220032_20230322T20100 CS_OFFL_SIR_IOPM_2_20230322T220032_20230322T20100 CS_OFFL_SIR_IOPM_2_20230322T220032_20230322T20001 CS_OFFL_SIR_IOPM_2_20230322T220032_20230322T220001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T22303_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T22303_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T22365_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_2023032T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T2230322T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T2230322T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T224443_20230322T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T224445_20230322T23449_C001 CS_OFFL_SIR_IOPM_2_20230322T22508_2023032T234499_C001 CS_OFFL_SIR_IOPM_2_20230322T22508_2023032T234499_C001 CS_OFFL_SIR_IOPM_2_20230322T23545_2003022T233459_C001 CS_OFFL_SIR_IOPM_2_20230322T23545_2003022T233459_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_2003022T23395_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_2003022T23395_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23395_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23395_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23716_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T23355_203032T230321021001001 CS_OFFL_SIR_IOPM_2_20230322T23355_2003032T	CS_OFFL_SIR_IOPM_2_20230322T203142_20230322T205025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_2023032T211241_2023032T214702_C001 CS_OFFL_SIR_IOPM_2_2023032T211241_2023032T214702_C001 CS_OFFL_SIR_IOPM_2_2023032T211241_2023032T21302_C001 CS_OFFL_SIR_IOPM_2_2023032T22032_2023032T22030_C001 CS_OFFL_SIR_IOPM_2_2023032T221253_2023032T221346_C001 CS_OFFL_SIR_IOPM_2_2023032T222288_2023032T221346_C001 CS_OFFL_SIR_IOPM_2_2023032T22288_2023032T223953_C001 CS_OFFL_SIR_IOPM_2_2023032T22288_2023032T223953_C001 CS_OFFL_SIR_IOPM_2_2023032T22288_2023032T223446_C001 CS_OFFL_SIR_IOPM_2_2023032T22288_2023032T223953_C001 CS_OFFL_SIR_IOPM_2_2023032T22288_2023032T223459_C001 CS_OFFL_SIR_IOPM_2_2023032T22508_2023032T223459_C001 CS_OFFL_SIR_IOPM_2_2023032T233552_2023032T233712_C001 CS_OFFL_SIR_IOPM_2_2023032T233552_2023032T233936_C001 CS_OFFL_SIR_IOPM_2_2023032T233552_2023032T233936_C001 CS_OFFL_SIR_IOPM_2_2023032T233552_2023032T233936_C001 CS_OFFL_SIR_IOPM_2_2023032T233552_2023032T233936_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T070048_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T070048_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T070048_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T7234558_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T7234558_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T723456_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T723456_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T723456_C001 CS_OFFL_SIR_IOPM_2_2023032T723552_2023032T723456_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T723456_C001 CS_OFFL_SIR_IOPM_2_2023032T7233552_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T70008_2023032T70048_C001 CS_OFFL_SIR_IOPM_2_2023032T	CS_OFFL_SIR_IOPM_2_20230322T205349_20230322T210024_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, SSHA, SWH and Backscatte	CS_OFFL_SIR_IOPM_2_20230322T210159_20230322T210957_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230322T221282_20230322T221346_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T223953_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T223953_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T223953_C001 CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T224133_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T2252828_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T2252828_20230322T23459_C001 CS_OFFL_SIR_IOPM_2_20230322T22508_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T237145_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T233955_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233955_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233955_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T001048_C001 CS_OFFL_SIR_IOPM_2_20230322T001058_20230322T001048_C001 CS_OFFL_SIR_IOPM_2_20230322T001058_20230322T001048_C	CS_OFFL_SIR_IOPM_2_20230322T211241_20230322T214702_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20230322T22828_20230322T223953_C001 CS_OFFL_SIR_IOPM_2_20230322T22828_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T224133_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T224133_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T224133_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T225288_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T225288_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T25208_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T2311_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T23165_C001 CS_OFFL_SIR_IOPM_2_20230322T03158_20230322T031216_C001 CS_OFFL_SIR_IOPM_2_20230322T03158_20230322T031216_C001 CS_OFFL_SIR_IOPM_2_20230322T03158_20230322T031216_C001 CS_OFFL_SIR_IOPM_2_20230322T03026_20230322T03048_C001 CS_OFFL_SIR_IOPM_2_20230322T03058_20230322T03158_20230322T03158_C001 CS_OFFL_SIR_IOPM_2_20230322T03058_20230322T03158_20230322T03158_C001 CS_OFFL_SIR_IOPM_2_20230322T03058_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T03158_20230322T	CS_OFFL_SIR_IOPM_2_20230322T220032_20230322T220130_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230322T224133_20230322T224647_C001 CS_OFFL_SIR_IOPM_2_20230322T225208_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T225208_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T23711_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T020026_20230322T00048_C001 CS_OFFL_SIR_IOPM_2_20230322T00026_20230322T00048_C001 CCC_ORAItimeter Range and Backscatter Quality Flags have been set for one or more records CCC_ORAItimeter Range and Backscatter Quality Flags have been set for one or more records CCC_ORAItimeter Range and Backscatter Quality Flags have been set for one or more records CCC_ORAItimeter Range and Backscatter Quality Flags have been set for one or more records CCC_ORAI	CS_OFFL_SIR_IOPM_2_20230322T221253_20230322T221346_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality CS_OFFL_SIR_IOPM_2_20230322T225208_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T225208_20230322T231459_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T23171_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T232711_C001 CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T232711_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T232711_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T232712458_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T070048_C001 CS_OFFL_SIR_IOPM_2_20230322T070026_20230322T070048_C001 CS_OFFL_SIR_IOPM_2_20230322T124414_20230322T124558_C001 CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T070048_C001 CS_OFFL_SIR_IOPM_2_20230322T070026_20230322T070048_C001 CS_OFFL_SIR_IOPM_2_20230322T070026_20230322T070048_C001 CCC_OFFL_SIR_IOPM_2_20230322T070026_20230322T070048_C001 CCC_OFFL_SIR_IOPM_2_20	CS_OFFL_SIR_IOPM_2_20230322T222828_20230322T223953_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR IOPN 2 20230322T124414 20230322T124558 COM	CS_OFFL_SIR_IOPM_2_20230322T224133_20230322T224647_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPM_2_20230322T02058_20230322T00048_C001 CS_OFFL_SIR_IOPM_2_20230322T070026_20230322T070048_C001 And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter	CS_OFFL_SIR_IOPM_2_20230322T225208_20230322T231459_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPN_2_20230322T021058_20230322T021216_C001 CS_OFFL_SIR_IOPN_2_20230322T021058_20230322T070048_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Rang	CS_OFFL_SIR_IOPM_2_20230322T231745_20230322T232711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20230322T021058_20230322T021216_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20230322T233852_20230322T233936_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20230322T070026_20230322T070048_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20230322T124414_20230322T124558_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPN_2_20230322T021058_20230322T021216_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPN_2_20230322T070026_20230322T070048_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPN_2_20230322T124414_20230322T124558_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230322T143147_20230322T143347_C001 Ocean Altimeter Range, SSHA, SWH 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_20230322T143147_20230322T143347_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20230322T185050_20230322T185226_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_20230322T185050_20230322T185226_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20230322T210035_20230322T210159_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_20230322T001644_20230322T001838_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_20230322T012204_20230322T012300_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_20230322T015332_20230322T015445_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230322T024822_20230322T025011_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_20230322T101808_20230322T102646_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_20230322T160846_20230322T160853_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_20230322T165617_20230322T170238_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_20230322T235016_20230322T235044_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

85

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20230322T011620_20230322T012203_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_20230322T034817_20230322T034914_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_20230322T040837_20230322T041406_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_20230322T042922_20230322T043123_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_20230322T050628_20230322T051013_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_20230322T052532_20230322T053119_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_20230322T064605_20230322T064702_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_20230322T075030_20230322T075221_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_20230322T075826_20230322T075949_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_20230322T084751_20230322T085136_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_20230322T092805_20230322T093131_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_20230322T102646_20230322T102916_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_20230322T113726_20230322T114052_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_20230322T115654_20230322T115923_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_20230322T125441_20230322T125557_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_20230322T133722_20230322T133827_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_20230322T143147_20230322T143347_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_20230322T151242_20230322T151308_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_20230322T153155_20230322T153452_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_20230322T161826_20230322T162323_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_20230322T162948_20230322T163417_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_20230322T165105_20230322T165617_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_20230322T174103_20230322T174413_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_20230322T175100_20230322T175321_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_20230322T182901_20230322T183440_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_20230322T185050_20230322T185226_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_20230322T200708_20230322T201134_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_20230322T210957_20230322T211109_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_20230322T220314_20230322T220437_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_20230322T222143_20230322T222225_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_20230322T224007_20230322T224133_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_20230322T224647_20230322T224950_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_20230322T235547_20230322T235748_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_20230322T001644_20230322T001838_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_20230322T001956_20230322T002705_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_20230322T002706_20230322T004207_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_20230322T015332_20230322T015445_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_20230322T015507_20230322T015622_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_20230322T015626_20230322T015655_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_20230322T015657_20230322T015707_C001	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, COG Altimeter Range and Backscatter Quality PLRM, COG Backscatt
OCG Backscatter Quality CS_OFFL_SIR_IOPR_2_20230322T024822_20230322T025011_CO01 CS_OFFL_SIR_IOPR_2_20230322T024822_20230322T025011_CO01 CS_OFFL_SIR_IOPR_2_20230322T031747_20230322T031948_CO01 CS_OFFL_SIR_IOPR_2_20230322T031747_20230322T031948_CO01 CS_OFFL_SIR_IOPR_2_20230322T033935_20230322T031948_CO01 CS_OFFL_SIR_IOPR_2_20230322T033935_20230322T03446_CO01 CS_OFFL_SIR_IOPR_2_20230322T033935_20230322T03446_CO01 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T03446_CO01 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T03446_CO01 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T03446_CO01 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T03446_CO01 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T03446_CO01 CS_OFFL_SIR_IOPR_2_20230322T035134_20230322T035535_CO01 CS_OFFL_SIR_IOPR_2_20230322T035134_20230322T03526_CO01 CS_OFFL_SIR_IOPR_2_20230322T035523_20230322T03526_CO01 CS_OFFL_SIR_IOPR_2_20230322T035523_20230322T03526_CO01 CS_OFFL_SIR_IOPR_2_20230322T035523_20230322T03526_CO01 CS_OFFL_SIR_IOPR_2_20230322T035202_CO01 CS_OFFL_SIR_IOPR_2_20230322T035202_CO01 CS_OFFL_SIR_IOPR_2_20230322T05202_CO01 CS_OFFL_SIR_IOPR_2_20230322T05202_C001 CS_OFFL_SIR_IOPR_2_20230322T05202_C001 CS_OFFL_SIR_IOPR_2_20230322T055202_C001 CS_OFFL_SIR_IOPR_2_20230322T05202_C001 CS_OFFL_SIR_IOPR_2_20
CS_OFFL_SIR_IOPR_2_20230322T024822_20230322T031948_C001 Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality Plags have been set for one or more records Cs_OFFL_SIR_IOPR_2_20230322T031948_C001 Cs_OFFL_SIR_IOPR_2_20230322T033935_20230322T034346_C001 Cs_OFFL_SIR_IOPR_2_20230322T034346_20230322T034346_C001 Cs_OFFL_SIR_IOPR_2_20230322T034346_20230322T034617_C001 Cs_OFFL_SIR_IOPR_2_20230322T035134_20230322T035353_C001 Cs_OFFL_SIR_IOPR_2_20230322T035134_20230322T035726_C001 Cs_OFFL_SIR_IOPR_2_20230322T051840_20230322T052002_C001 Cs_OFFL_SIR_IOPR_2_20230322T051840_20230322T05231_C001 Cs_OFFL_SIR_IOPR_2_20230322T052002_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T052002_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T052002_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T050119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T050119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T050119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 Cs_OFFL_SIR_IOPR_2_20230322T053119_20230322T05
CS_OFFL_SIR_IOPR_2_20230322T03194R_C001 CS_OFFL_SIR_IOPR_2_20230322T033935_20230322T034346_C001 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T034346_C001 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T034346_C001 CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T034346_C001 CS_OFFL_SIR_IOPR_2_20230322T035134_20230322T035353_C001 CS_OFFL_SIR_IOPR_2_20230322T035134_20230322T035353_C001 CS_OFFL_SIR_IOPR_2_20230322T035134_20230322T035253_C001 CS_OFFL_SIR_IOPR_2_20230322T035232_20230322T035235_C001 CS_OFFL_SIR_IOPR_2_20230322T03523_20230322T03523_C001 CS_OFFL_SIR_IOPR_2_20230322T03523_20230322T03523_C001 CS_OFFL_SIR_IOPR_2_20230322T03533_C001 CS_OFFL_SIR_IOPR_2_20230322T03523_20230322T03523_C001 CS_OFFL_SIR_IOPR_2_20230322T03523_20230322T03523_C001 CS_OFFL_SIR_IOPR_2_20230322T051840_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052531_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052531_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T0523340_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T053340_C001 CS_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 CS_OFFL_SIR_IOPR_2_20230322T053119
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range Responsible of the Ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range Responsible of the Ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range Responsible of the Ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range Responsible of the Ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range Responsible of the Ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range Responsible of the Ocog Altimeter R
CS_OFFL_SIR_IOPR_2_20230322T034346_20230322T034617_C001 and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM DCOG Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range a
CS_OFFL_SIR_IOPR_2_20230322T035134_20230322T035353_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20230322T035523_20230322T035726_C001 CS_OFFL_SIR_IOPR_2_20230322T051840_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T051840_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T051840_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052531_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052531_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052531_C001 CS_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 CS_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 CS_OFFL_SIR_IOPR_2_20230322T060742_20230322T060855_C001 CS_OFFL_SIR_IOPR_2_20230322T060742_20230322T060855_C001 CS_OFFL_SIR_IOPR_2_20230322T060742_20230322T060855_C001 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, SSHA, SWH 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, SSHA, SWH 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, SSHA, SWH 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, SSHA, SWH 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, 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 Ba
CS_OFFL_SIR_IOPR_2_20230322T053840_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T051840_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052002_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T052531_C001 CS_OFFL_SIR_IOPR_2_20230322T052002_20230322T0523340_C001 CS_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 CS_OFFL_SIR_IOPR_2_20230322T060742_20230322T060855_C001 CS_OFFL_SIR_IOPR_2_20230322T060742_2023032T060855_C001 CS_OFFL_SIR_IOPR_2_20230322T060742_20230322T060855_
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, 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, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH 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 P
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20230322T053119_20230322T053340_C001 CS_OFFL_SIR_IOPR_2_20230322T060742_20230322T060855_C001 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimete
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and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality Plags have been described by the Cook of the Cook
FLRW
CS_OFFL_SIR_IOPR_2_20230322T065628_20230322T065852_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been considered and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records
Cs_OFFL_SIR_IOPR_2_20230322T070048_20230322T070549_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 PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been been considered by the ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM.
CS_OFFL_SIR_IOPR_2_20230322T083436_20230322T083627_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records The OCOG Range and Backscatter Quality Flags have been set to more records
CS_OFFL_SIR_IOPR_2_20230322T083803_20230322T084750_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM of the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Alt
CS_OFFL_SIR_IOPR_2_20230322T092604_20230322T092805_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM to Ocean Altimeter Range, SSHA, S
CS_OFFL_SIR_IOPR_2_20230322T101125_20230322T101421_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set in more records
CS_OFFL_SIR_IOPR_2_20230322T101808_20230322T102646_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality Flags have been considered and the OCOG Altimeter Range and Backscatter Quality Flags have been considered as the ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM and Backscatter Quality PLRM.
CS_OFFL_SIR_IOPR_2_20230322T114544_20230322T114622_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records OCOG Backscatter Quality PLRM, or records
CS_OFFL_SIR_IOPR_2_20230322T114800_20230322T115125_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been been been been been been been be
Cs_OFFL_SIR_IOPR_2_20230322T115125_20230322T115654_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 PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been been considered by the ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM.
CS_OFFL_SIR_IOPR_2_20230322T115924_20230322T120649_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality PLRM and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records
CS_OFFL_SIR_IOPR_2_20230322T120651_20230322T120707_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set to more records
CS_OFFL_SIR_IOPR_2_20230322T133827_20230322T134531_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality PLRM set for one or more records
CS_OFFL_SIR_IOPR_2_20230322T134803_20230322T135307_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 PLRM and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records

CS_OFFL_SIR_IOPR_2_20230322T140014_20230322T140455_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_20230322T145314_20230322T145527_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_20230322T150730_20230322T151242_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_20230322T151742_20230322T152432_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_20230322T164900_20230322T165105_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_20230322T165617_20230322T170238_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_20230322T183518_20230322T184418_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_20230322T201134_20230322T201917_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_20230322T202217_20230322T202417_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_20230322T210024_20230322T210034_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_20230322T214703_20230322T214707_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_20230322T215101_20230322T215739_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_20230322T215739_20230322T220032_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_20230322T220243_20230322T220314_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_20230322T222535_20230322T222828_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_20230322T224951_20230322T225207_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_20230322T232923_20230322T233638_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_20230322T233639_20230322T233852_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_20230322T234237_20230322T234833_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)

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

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

> Ocean Retracking Quality Flag: This flag is currently set for products 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:

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. The number of products with this error flag set is given below.

Number of products with errors:

13

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

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 check.

- > 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.

30

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220230321T233623_20230322T002559_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_220230322T002559_20230322T011538_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_220230322T011538_20230322T020514_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_220230322T020514_20230322T025453_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_220230322T025453_20230322T034429_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_220230322T034429_20230322T043407_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_220230322T043407_20230322T052343_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_220230322T052343_20230322T061322_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_220230322T061322_20230322T070258_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_220230322T070258_20230322T075237_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_220230322T075237_20230322T084213_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_220230322T084213_20230322T093152_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_220230322T093152_20230322T102127_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_220230322T102127_20230322T111106_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_220230322T111106_20230322T120042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_2_20230322T120042_20230322T125021_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_220230322T125021_20230322T133957_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_220230322T133957_20230322T142935_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_220230322T142935_20230322T151911_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_20230322T151911_20230322T160850_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_220230322T160850_20230322T165826_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_220230322T165826_20230322T174805_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_220230322T174805_20230322T183741_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_220230322T183741_20230322T192720_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_220230322T192720_20230322T201655_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_2_20230322T201655_20230322T210634_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_220230322T210634_20230322T215610_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_220230322T215610_20230322T224549_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_220230322T224549_20230322T233525_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_220230322T233525_20230323T002504_C002	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

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220230322T020514_20230322T025453_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220230322T201655_20230322T210634_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

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. The number of P2P products affected is given below

Number of products with errors: 30

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. The number of P2P products affected is given below.

Number of products with errors: 30

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 number of L2 products affected. The number of P2P products affected is given below.

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: 30

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	179	179	8	171	0
SIR_IOPR1B	116	94	1	93	0
SIR_IOPN1B	94	116	0	116	0
SIR_IOPM_2	179	179	121	58	0
SIR IOPR 2	116	94	34	59	1
SIR_IOPN_2	94	116	32	84	0
SIR IOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

8

Total number	of	occurrences	of	each	error

					rotai number	or occurrences	or each error				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPN_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	1	1	1	1							

Test Description Key:		
Abbreviation	Test name	Details

RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7

7.2 QCC Warnings

RSWHOEPNCDF

RangeSignificantWaveHeightOceanExcludingPolarNetCDF

Number of C	CC reports	with warnings	

2115

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_IOPM1B	171	0	0	0	0	0	0
SIR_IOPM_2	0	0	43	38	0	41	0
SIR_IOPN1B	93	0	0	0	0	0	0
SIR_IOPN_2	0	1	7	30	3	24	25
SIR_IOPR1B	113	0	0	0	0	0	0
SIR_IOPR_2	0	0	22	33	1	29	25

Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	33	4	1	35	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	16	23	0	0	0	17	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	21	36	4	0	38	0	46

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	27	0	0	6	25	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	29	0	0	22	13	41	47
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	0	34	0	6	60	27

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	5	31	0	3	0	0	0
SIR_IOPN1B	0	0	0	0	0	45	2
SIR_IOPN_2	21	29	28	14	1	0	0
SIR_IOPR1B	0	0	0	0	0	116	11
SIR_IOPR_2	11	31	40	2	2	0	0

Produ	ct Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_I	OP 2	14	28	28	4	29	16	28

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_IOP_2_	29	3	14	26	20	16	29
Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	j-

SIR_IOP_2_		22	29	16	15	29	
Product Type	•	•	•	•	-	•	-
SIR_IOP_2_							

SIR_IOP_2_						
Test Description Key						
Test Description Key: Abbreviation	Test name		Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
BOO! II YOB!	Suite Suite, Stop 25, 12, 16, 65, 1	The basic counter should be one higher with regard to the provious basic counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1	Hz measurements should be	in the range 0 to (number o	f 1 Hz samples - 1)	
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF		The value should not be a 'i	missing value' for surface typ	oe 0 only for latitudes between	n -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF		The value should not be a 'r	missing value' for surface typ	e 0 only for latitudes between	n -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF		The value should not be a 'r	missing value' for surface typ	e 0 only	
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFl	D2NetCDF	The backscatter sigma zero between -70 and 70 degree		1 7500 (or missing) for surfac	e type = ocean for latitudes
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFi	D2PLRMNetCDF	The backscatter sigma zero between -70 and 70 degree		1 7500 (or missing) for surfac	e type = ocean for latitudes
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNet	etCDF	The backscatter sigma zero between -70 and 70 degree		1 7500 (or missing) for surfac	e type = ocean for latitudes
RLPTONCDF	RangeLongPeriodTideOceanNetCDF		The Long period tide height NetCDF	should be between -50mm	and 50mm (or missing) for so	ırface type = ocean -
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF		The Non-equilibrium long po surface type = ocean	eriod ocean loading tide heig	ht should be between -40mr	m and 40mm (or missing) for
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF		The Peakiness should be be and 70 degrees	etween 0 and 6400 (or missi	ng) for surface type = ocean	for latitudes between -70
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCI	OF .	The Peakiness should be be and 70 degrees	etween 0 and 15000 (or miss	sing) for surface type = ocea	n for latitudes between -70
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCD	F	The Peakiness should be be and 70 degrees	etween 0 and 90000 (or miss	sing) for surface type = ocea	n for latitudes between -70
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF		The Peakiness should be be and 70 degrees	etween 0 and 15000 (or miss	sing) for surface type = ocea	n for latitudes between -70
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF		The Peakiness should be be and 70 degrees	etween 0 and 90000 (or miss	sing) for surface type = ocea	n for latitudes between -70
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF		The Peakiness should be be and 70 degrees	etween 0 and 6400 (or missi	ng) for surface type = ocean	for latitudes between -70
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF		The Peakiness should be be and 70 degrees	etween 0 and 15000 (or miss	sing) for surface type = ocea	n for latitudes between -70
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF		The Peakiness should be be and 70 degrees	etween 0 and 90000 (or miss	sing) for surface type = ocea	n for latitudes between -70
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF		The sea state bias correction	n should be between -500m	m and 0mm (or missing) for	surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF		The sea surface height ano ocean	maly should be between -30	00mm and 3000mm (or miss	ing) for surface type =
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetC	DF	The sea surface height ano ocean	maly should be between -30	00mm and 3000mm (or miss	ing) for surface type =
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF		The sea surface height ano ocean	maly should be between -30	00mm and 3000mm (or miss	ing) for surface type =
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2N	letCDF	The significant wave height latitudes between -70 and 7		d 15000mm (or missing) for	surface type = ocean for
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2F	PLRMNetCDF	The significant wave height latitudes between -70 and 7		d 15000mm (or missing) for	surface type = ocean for
					145000 ())) (

The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

L1B and L2 Product name P:

P2P Product name
CS_OFFL_SIR_IOP_2_20230322T233525_20230323T002504_C002