

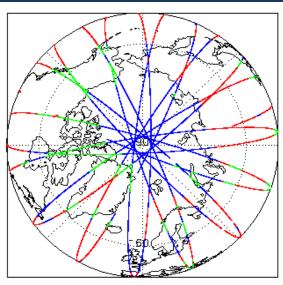
1. Overview

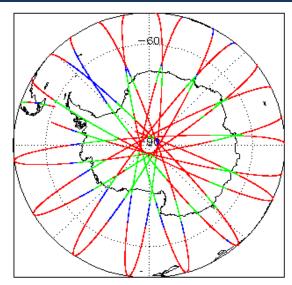
Report Production:	21-Feb-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

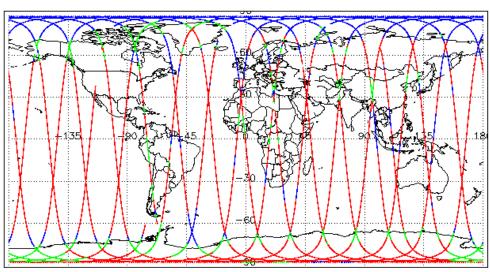
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

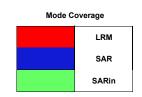
N	lission / Instru	ment News
	17-Feb-2022	None
	18-Feb-2022	None
	19-Feb-2022	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

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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 upda

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220218T192201_20220218T192341_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220218T112022_20220218T113522_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220218T001302_20220218T001450_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220218T005859_20220218T010454_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220218T054815_20220218T054919_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220218T091046_20220218T091154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220218T222902_20220218T223021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220218T230852_20220218T231509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T023419_20220218T023913_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T040811_20220218T041002_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T053908_20220218T054003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T071911_20220218T071941_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T072438_20220218T073105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T091154_20220218T091908_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T105109_20220218T105810_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T155320_20220218T155434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T164437_20220218T164553_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220218T233914_20220218T234054_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.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220218T110817_20220218T111843_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20220218T141709_20220218T141811_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_20220218T005859_20220218T010454_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_20220218T015146_20220218T015412_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T032118_20220218T032300_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T050128_20220218T050458_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_20220218T064040_20220218T064401_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_20220218T064915_20220218T065038_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T073106_20220218T073247_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_20220218T082815_20220218T082924_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T091046_20220218T091154_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_20220218T100517_20220218T100713_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_20220218T104853_20220218T105109_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T122435_20220218T122948_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20220218T131430_20220218T131728_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T132357_20220218T132644_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T140436_20220218T140715_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T140715_20220218T140811_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T155435_20220218T155552_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T172040_20220218T172206_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220218T195318_20220218T195626_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_20220218T195916_20220218T200257_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_20220218T222902_20220218T223021_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_20220218T230852_20220218T231509_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_20220218T005223_20220218T005858_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_20220218T023419_20220218T023913_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_20220218T041113_20220218T042113_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_20220218T055118_20220218T060005_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_20220218T073247_20220218T074012_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_20220218T091154_20220218T091908_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_20220218T102638_20220218T102852_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_IOPR_2_20220218T105109_20220218T105810_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)

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CS_OFFL_SIR_IOPR_2_20220218T122948_20220218T123602_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_20220218T140811_20220218T141709_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_IOPR_2_20220218T154505_20220218T155245_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_20220218T172434_20220218T173105_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_20220218T173105_20220218T173410_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_20220218T190248_20220218T191005_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_20220218T191005_20220218T191231_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_20220218T204422_20220218T204902_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_20220218T204902_20220218T205022_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_20220218T222231_20220218T222741_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_20220218T222741_20220218T222902_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

 Product
 Test Failed
 Description

 CS_OFFL_SIR_IOPM_2_20220218T192201_20220218T192341_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: 87

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220217T235727_20220218T000201_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_20220218T000458_20220218T001302_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_20220218T001450_20220218T003027_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_20220218T010713_20220218T014111_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_20220218T014339_20220218T014545_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_20220218T014616_20220218T015146_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_20220218T015412_20220218T021932_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_20220218T025145_20220218T025152_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_20220218T025154_20220218T031950_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_20220218T032548_20220218T033033_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_20220218T033309_20220218T035414_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_OFFL_SIR_IOPM_2_20220218T035416_20220218T040213_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_20220218T042518_20220218T045905_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_20220218T050458_20220218T051028_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_20220218T051156_20220218T051816_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_20220218T054403_20220218T054505_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_20220218T054919_20220218T055118_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_20220218T060440_20220218T063846_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_20220218T064401_20220218T064914_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_20220218T065049_20220218T071054_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_20220218T074243_20220218T080311_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_20220218T080313_20220218T081640_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_20220218T081943_20220218T082402_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_20220218T082420_20220218T082815_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_20220218T083010_20220218T090635_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_20220218T090759_20220218T091046_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_20220218T092618_20220218T093340_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_20220218T093957_20220218T094207_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_20220218T094321_20220218T095606_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_20220218T095744_20220218T100301_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_20220218T100320_20220218T100517_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_20220218T101334_20220218T102638_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_20220218T102852_20220218T104043_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_20220218T110817_20220218T111843_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_20220218T112022_20220218T113522_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_20220218T113711_20220218T114213_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_20220218T115045_20220218T115143_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_20220218T115823_20220218T120250_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_20220218T120752_20220218T120841_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_20220218T120932_20220218T121231_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_20220218T121354_20220218T122104_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_20220218T125245_20220218T131429_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_20220218T131728_20220218T132131_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_20220218T132738_20220218T140226_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_20220218T142824_20220218T145405_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_20220218T145520_20220218T150046_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_20220218T150052_20220218T150417_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_20220218T150649_20220218T154009_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_20220218T160324_20220218T160355_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_20220218T160526_20220218T162446_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_20220218T162712_20220218T163345_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_20220218T163522_20220218T164325_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_20220218T164553_20220218T172040_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_20220218T173411_20220218T173500_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_20220218T174236_20220218T174318_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_20220218T180349_20220218T181324_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_20220218T181458_20220218T182014_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_20220218T182538_20220218T184824_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_20220218T185110_20220218T190041_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_20220218T191346_20220218T191646_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_20220218T193128_20220218T193720_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_20220218T193908_20220218T195231_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_20220218T200521_20220218T203231_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

Copper Light (JONA) 2 20200181714009 (2020) Copper Light (JONA) 2	CS_OFFL_SIR_IOPM_2_20220218T203410_20220218T203737_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_OFT_SRI_OPM_2_2022219T11465_2822219T21457_C001 CS_OFT_SRI_OPM_2_2022219T11465_2822219T21457_C001 CS_OFT_SRI_OPM_2_2022219T11465_2822219T21457_C001 CS_OFT_SRI_OPM_2_2022219T11465_2822219T21457_C001 CS_OFT_SRI_OPM_2_2022219T11465_2822219T21457_C001 CS_OFT_SRI_OPM_2_2022219T11465_2822219T21457_C001 CS_OFT_SRI_OPM_2_2022219T11465_2822219T21457_C001 CS_OFT_SRI_OPM_2_2022219T125569_2822219T20157_C001 CS_OFT_SRI_OPM_2_2022219T11465_2822219T20157_C001 CS_OFT_SRI_OPM_2_2022219T11569_2822219T20157_C001 CS_OFT_SRI_OPM_2_2022219T12569_2822219T20157_C001 CS_OFT_SRI_OPM_2_2022219T12569_2822219T20157_C001 CS_OFT_SRI_OPM_2_2022219T12569_2822219T20157_C001 CS_OFT_SRI_OPM_2_20222219T12569_2822219T20157_C001 CS_OFT_SRI_OPM_2_20222219T20167_282219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T2017_C001 CS_OFT_SRI_OPM_2_20222219T12017_C001 CS_OFT_SRI_OPM_2_20222219T110102_C002 CS_OFT_SRI_OPM_2_20222219T110102_C002 CS_OFT_SRI_OPM_2_20222219T110102_C002 CS_OFT_SRI_OPM_2_20222219TT1002_20022T110100000000000000000000000	CS_OFFL_SIR_IOPM_2_20220218T205528_20220218T210219_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Interest Planger and Bookscarter Quality Flags CS_OFFL_SRI_OPPL_2.0222218T215655_0222218T21565_C001 CS_OFFL_SRI_OPPL_2.0222218T215655_0222218T22157_C001 CS_OFFL_SRI_OPPL_2.0222218T215655_0222218T22157_C001 CS_OFFL_SRI_OPPL_2.0222218T215655_0222218T22157_C001 CS_OFFL_SRI_OPPL_2.0222218T215655_0222218T22157_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T22157_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T22157_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T22157_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T225749_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T225749_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T225749_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T225749_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T225749_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T225749_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T225749_C001 CS_OFFL_SRI_OPPL_2.0222218T22565_0222218T22565_0000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220218T210232_20220218T212654_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
e3 OFTL_SIR_OPM_2_2022019T21403_2022219T22019T. OS_OFTL_SIR_OPM_2_2022019T22019Z. OS_OFTL_SIR_OPM_2_2022019T2019Z. OS_OFTL_SIR_OPM_2_2022019T110019Z. OS_OFTL_SIR_OPM_2_2022019T110019Z. OS_OFTL_SIR_OPM_2_2022019T110019Z. OS_OFTL_SIR_OPM_2_2022019T110019Z. OS_OFTL_SIR_OPM_2_2022019T110019Z. OS_OFTL_SIR_OPM_2_2022019T110019Z. OS_OFTL_	CS_OFFL_SIR_IOPM_2_20220218T214042_20220218T214317_C001		
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of Schrift, SIR (JOPM 2, 2022021817223021_202202181722317_C001) Schrift (Sir (JOPM 2, 2022021817223021_20200181722310_C001) Schrift (Sir (JOPM 2, 2022021817223021_20200181722300_C001) Schrift (Sir (JOPM 2, 202202181722300_C001) Schrift (Sir (JOPM 2, 202202181722300_C001) Schrift (Sir (JOPM 2, 202202181722300_C001) Schrift (Sir (JOPM 2, 20220218172300_C001) Schrift (Sir (JOPM 2, 2022021817300_C001) Schrift (Sir (JOPM 2, 2022021811000_C001	CS_OFFL_SIR_IOPM_2_20220218T215025_20220218T220157_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscotter Countly Go. OFFL_SIR_JOPM_2_20220216T223543_20220215T223749_0001 CS_OFFL_SIR_JOPM_2_20220216T223543_20220215T223749_0001 CS_OFFL_SIR_JOPM_2_20220216T223543_20220215T223749_0001 CS_OFFL_SIR_JOPM_2_20220216T223543_20220216T223519_0001 CS_OFFL_SIR_JOPM_2_20220216T223542_20220216T220592_0001 CS_OFFL_SIR_JOPM_2_20220216T225749_20220216T220592_0001 CS_OFFL_SIR_JOPM_2_20220216T225749_20220216T230592_0001 CS_OFFL_SIR_JOPM_2_20220216T225749_20220216T230592_0001 CS_OFFL_SIR_JOPM_2_20220216T23150_20220216T230592_0001 CS_OFFL_SIR_JOPM_2_20220216T23150_20220216T2332394_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T23240_20220216T233594_0001 CS_OFFL_SIR_JOPM_2_20220216T133592_20220216T33594_0001 CS_OFFL_SIR_JOPM_2_20220216T133592_20220216T33594_0001 CS_OFFL_SIR_JOPM_2_20220216T133592_20220216T33594_0001 CS_OFFL_SIR_JOPM_2_20220216T133592_20220216T33594_0001 CS_OFFL_SIR_JOPM_2_20220216T13552_20220216T13590_0001 CS_OFFL_SIR_JOPM_2_20220216T13552_20220216T13590_0001 CS_OFFL_SIR_JOPM_2_20220216T140915_20220216T13590_0001 CS_OFFL_SIR_JOPM_2_20220216T140915_20220216T13590_0001 CS_OFFL_SIR_JOPM_2_20220216T140915_20220216T13590_0001 CS_OFFL_SIR_JOPM_2_20220216T104055_20220216T104055_00001 CS_OFFL_SIR_JOPM_2_20220216T104055_20220216T1050010 CS_OFFL_SIR_JOPM_2_20220216T104055_20220216T1050010 CS_OFFL_SIR_JOPM_2_20220216T104055_20220216T1050010 CS_OFFL_SIR_JOPM_2_20220216T104055_20220216T0001000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220218T220159_20220218T221216_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Causity, COOS Alterneter Range and Backscatter Causity, Flags have been Attempted Range, SSHA, SWH and Backscatter Causity, Flags have been Attempted Range, SSHA, SWH and Backscatter Causity, Flags have been SSHA, SWH and Backscatter Causity, COCG Attender Range and Backscatter Causity, Flags have been SSHA, SWH and Backscatter Causity, COCG Attender Range and Backscatter Causity, Flags have been SSHA, SWH and Backscatter Causity, COCG Attender Range, SSHA, SWH and Backscatter Causity, Flags have been set for one or more records. CS_OFFIL_SIR_JOPN_2_20220218T149412_C02018T143911_C001 SC_OFFIL_SIR_JOPN_2_20220218T149412_C02018T144911_C001 SC_OFFIL_SIR_JOPN_2_20220218T149412_C02018T144911_C001 SC_OFFIL_SIR_JOPN_2_20220218T149412_C02018T144911_C001 SC_OFFIL_SIR_JOPN_2_20220218T19494_C020218T194912_C001 CS_OFFIL_SIR_JOPN_2_20220218T19494_C020218T194919_C0018T194918_C0018T194918_C0018T194918_C0018T194918_C0018T194918_C	CS_OFFL_SIR_IOPM_2_20220218T223021_20220218T223417_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been affineder Range and Backscatter Quality Flags have been affineder Range and Backscatter Quality Flags have been affineder Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220216T235749_20220216T230852_0001 CS_OFFL_SIR_IOPM_2_20220218T231509_20220216T231742_0001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20220218T231509_20220218T232230_0001 CS_OFFL_SIR_IOPM_2_20220218T231604_20220218T2323914_0001 CS_OFFL_SIR_IOPM_2_20220218T232410_20220218T233914_0001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T233914_0001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T233914_0001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T233914_0001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T234201_0001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T23401_0001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T23401_0001 CS_OFFL_SIR_IOPM_2_20220218T13522_20220218T13710_0001 CS_OFFL_SIR_IOPM_2_20220218T13522_20220218T13710_0001 CS_OFFL_SIR_IOPM_2_20220218T140715_20220218T140811_0001 CS_OFFL_SIR_IOPM_2_20220218T140715_20220218T140811_0001 CS_OFFL_SIR_IOPM_2_20220218T140715_20220218T140811_0001 CS_OFFL_SIR_IOPM_2_20220218T16425_20220218T164437_0001 CS_OFFL_SIR_IOPM_2_20220218T100454_20220218T100713_0001 CS_OFFL_SIR_IOPM_2_20220218T100454_2022	CS_OFFL_SIR_IOPM_2_20220218T223543_20220218T223749_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM_2_20220218T231809_20220218T231742_CO01 CS_OFFL_SIR_JOPM_2_20220218T231804_20220218T23230_CO01 Sackscatter Quality, COCG Backscatter Quality, COC	CS_OFFL_SIR_IOPM_2_20220218T223942_20220218T225130_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20220218T231804_20220218T23230_C001 CS_OFFL_SIR_IOPM_2_20220218T231804_20220218T232314_C001 CS_OFFL_SIR_IOPM_2_20220218T23410_20220218T233914_C001 CS_OFFL_SIR_IOPM_2_20220218T23404_20220218T233914_C001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T23421_C001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T23421_C001 CS_OFFL_SIR_IOPM_2_20220218T13522_20220218T13710_C001 CS_OFFL_SIR_IOPM_2_20220218T13522_20220218T13710_C001 CS_OFFL_SIR_IOPM_2_20220218T13522_20220218T13710_C001 CS_OFFL_SIR_IOPM_2_20220218T140715_20220218T140811_C001 CS_OFFL_SIR_IOPM_2_20220218T164325_20220218T100101 CS_OFFL_SIR_IOPM_2_20220218T164325_20220218T100101 CS_OFFL_SIR_IOPM_2_20220218T164325_20220218T100101 CS_OFFL_SIR_IOPM_2_20220218T100454_20220218T1001013_C001 CS_OFFL_SIR_IOPM_2_20220218T100454_20220218T000113_C001 CS_OFFL_SIR_IOPM_2_20220218T100454_20220218T000138_C001 CS_OFFL_SIR_IOPR_2_20220218T100454_20220218T000138_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_20220218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_20220218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10050202_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T1002020_20202218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T1002020_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T1002020_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T1002020_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T100200_2020218T000288_C001 CS_OFFL_SIR_IOPR_2_20220218T10000_20220218T0000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220218T225749_20220218T230852_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Grone or more records GS_OFFL_SIR_IOPM_2_20220218T232410_20220218T233914_C001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T23421_C001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T23421_C001 CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T23421_C001 CS_OFFL_SIR_IOPM_2_20220218T13522_20220218T13710_C001 CS_OFFL_SIR_IOPM_2_20220218T143522_20220218T13710_C001 CS_OFFL_SIR_IOPM_2_20220218T140512_20220218T13710_C001 CS_OFFL_SIR_IOPM_2_20220218T140512_20220218T140611_C001 CS_OFFL_SIR_IOPM_2_20220218T14052_20220218T140611_C001 CS_OFFL_SIR_IOPM_2_20220218T140542_20220218T10713_C001 CS_OFFL_SIR_IOPM_2_20220218T10454_20220218T10713_C001 CS_OFFL_SIR_IOPM_2_20220218T10454_20220218T005128_C001 CS_OFFL_SIR_IOPM_2_20220218T10454_20220218T005128_C001 CS_OFFL_SIR_IOPM_2_20220218T10454_20220218T005128_C001 CS_OFFL_SIR_IOPM_2_20220218T1050522_C0020218T050528_C001 CS_OFFL_SIR_IOPM_2_20220218T1050528_C001 CS_OFFL_SIR_IOPM_2_20220218T1050528_C001 CS_OFFL_SIR_IOPM_2_20220218T1050528_C001 CS_OFFL_SIR_IOPM_2_20220218T0050528_C001 CS_OFFL_SIR_IOPM_2_20220218T1050528_C001 COG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220218T1050528_C001 CS_OFFL_SIR_IOPM_2_20220218T1050528_C001 CS_OFFL_SI	CS_OFFL_SIR_IOPM_2_20220218T231509_20220218T231742_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been at for one or more records CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T234421_CO01 CS_OFFL_SIR_IOPM_2_20220218T34054_20220218T34421_CO01 CS_OFFL_SIR_IOPM_2_20220218T13522_20220218T13710_CO01 CS_OFFL_SIR_IOPM_2_20220218T140715_20220218T140811_CO01 CS_OFFL_SIR_IOPM_2_20220218T140715_20220218T140811_CO01 CS_OFFL_SIR_IOPM_2_20220218T140715_20220218T140811_CO01 CS_OFFL_SIR_IOPM_2_20220218T164325_20220218T164437_CO01 CS_OFFL_SIR_IOPM_2_20220218T164325_20220218T164437_CO01 CS_OFFL_SIR_IOPM_2_20220218T164325_20220218T164437_CO01 CS_OFFL_SIR_IOPM_2_20220218T104545_20220218T10713_CO01 CS_OFFL_SIR_IOPM_2_20220218T045905_20220218T050128_CO01 CS_OFFL_SIR_IOPM_2_20220218T045905_20220218T050128_CO01 CS_OFFL_SIR_IOPM_2_20220218T0502202_2020218T1092618_CO01 CS_OFFL_SIR_IOPM_2_20220218T15248_20220218T115335_CO01 CS_OFFL_SIR_IOPM_2_20220218T15248_20220218T173105_CO01 CS_OFFL_SIR_IOPM_2_20220218T15248_20220218T173105_CO01 CS_OFFL_SIR_IOPM_2_20220218T17434_20220218T173105_CO01 CS_OFFL_SIR_IOPM_2_20220218T17434_20220218T173105_CO01 CS_OFFL_SIR_IOPM_2_20220218T15248_20220218T173105_CO01 CS_OFFL_SIR_IOPM_2_20220218T15248_20220218T173105_CO01 CS_OFFL_SIR_IOPM_2_20220218T115248_20220218T173105_CO01 CS_OF	CS_OFFL_SIR_IOPM_2_20220218T231804_20220218T232230_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20220218T113522_20220218T113710_C001 CS_OFFL_SIR_IOPN_2_20220218T140715_20220218T140811_C001 CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092618_C001 CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T15335_C001 CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T1792434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range and Backscatter	CS_OFFL_SIR_IOPM_2_20220218T232410_20220218T233914_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20220218T140715_20220218T140811_C001 CS_OFFL_SIR_IOPN_2_20220218T140715_20220218T140811_C001 CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPN_2_20220218T010454_20220218T010713_C001 CS_OFFL_SIR_IOPR_2_20220218T010454_20220218T010713_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T050202_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T050202_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T050202_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T050202_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T050202_20220218T0505018_C001 CS_OFFL_SIR_IOPR_2_20220218T050202_20220218T0505018_C001 CS_OFFL_SIR_IOPR_2_20220218T050202_20220218T0505018_C001 CS_OFFL_SIR_IOPR_2_20220218T0505000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220218T234054_20220218T234421_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001 CS_OFFL_SIR_IOPR_2_20220218T010454_20220218T010713_C001 CS_OFFL_SIR_IOPR_2_20220218T010454_20220218T010713_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092218_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092818_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092818_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092818_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092818_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092818_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092818_C001 CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T115335_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T191231_C001 CS_OFFL_SIR_IOPR_2_20220218T19105_20220218T191231_C001 CS_OFFL_SIR_IOPR_2_20220218T19105_20220218T19123	CS_OFFL_SIR_IOPN_2_20220218T113522_20220218T113710_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T010454_20220218T010713_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092618_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092618_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092618_C001 CS_OFFL_SIR_IOPR_2_20220218T192202_20220218T092618_C001 CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T115335_C001 CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T115335_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T191231_C001 CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 And Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T191231_C001 CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 CS_OFFL_SIR_IOPR_2_20220218T191005_20220218	CS_OFFL_SIR_IOPN_2_20220218T140715_20220218T140811_C001	0 7.	, ,
Backscatter Quality CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T0922018_C001 CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T0922018_C001 CS_OFFL_SIR_IOPR_2_20220218T19231_C001 Backscatter Quality CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 Backscatter Quality Cocan Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T115335_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T191231_C001 CCS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 CCS_OFFL_SIR_IOPR_2_20220218T191005_20220218	CS_OFFL_SIR_IOPN_2_20220218T164325_20220218T164437_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092618_C001 CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T115335_C001 CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T115335_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T191231_C001 And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001	CS_OFFL_SIR_IOPR_2_20220218T010454_20220218T010713_C001		
CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092618_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 And Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001	CS_OFFL_SIR_IOPR_2_20220218T045905_20220218T050128_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Science of the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Science of the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Science of the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags 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 seen seen seen seen seen seen see	CS_OFFL_SIR_IOPR_2_20220218T092202_20220218T092618_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG 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 have been	CS_OFFL_SIR_IOPR_2_20220218T115248_20220218T115335_C001		
CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPR_2_20220218T172434_20220218T173105_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPR_2_20220218T191005_20220218T191231_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20220218T004156_20220218T004344_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_20220218T005859_20220218T010454_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_20220218T015146_20220218T015412_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_20220218T022202_20220218T022335_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_20220218T052941_20220218T053056_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_20220218T054241_20220218T054331_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_20220218T060005_20220218T060200_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_20220218T064915_20220218T065038_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_20220218T071054_20220218T071419_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_20220218T073106_20220218T073247_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_20220218T081750_20220218T081943_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_20220218T090741_20220218T090759_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_20220218T100517_20220218T100713_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_20220218T104853_20220218T105109_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_20220218T113522_20220218T113710_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_20220218T115535_20220218T115823_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_20220218T120251_20220218T120752_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_20220218T122104_20220218T122226_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_20220218T122435_20220218T122948_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_20220218T124539_20220218T124924_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_20220218T132357_20220218T132644_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_20220218T140436_20220218T140715_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_20220218T154010_20220218T154504_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_20220218T155435_20220218T155552_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_20220218T164325_20220218T164437_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_20220218T172302_20220218T172434_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_20220218T175151_20220218T175224_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_20220218T181333_20220218T181458_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_20220218T182014_20220218T182319_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_20220218T195916_20220218T200257_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_20220218T204404_20220218T204422_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_20220218T213355_20220218T213629_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_20220218T213823_20220218T214042_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_20220218T221401_20220218T221610_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_20220218T003027_20220218T003837_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_20220218T005223_20220218T005858_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_20220218T010454_20220218T010713_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_20220218T023419_20220218T023913_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_20220218T040811_20220218T041002_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_20220218T054505_20220218T054806_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_20220218T055118_20220218T060005_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_20220218T065038_20220218T065049_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_20220218T072438_20220218T073105_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_20220218T073247_20220218T074012_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_20220218T092123_20220218T092152_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_20220218T092202_20220218T092618_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_20220218T100713_20220218T101333_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_20220218T102638_20220218T102852_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_20220218T104043_20220218T104317_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_20220218T105109_20220218T105810_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_20220218T122227_20220218T122435_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_20220218T125146_20220218T125244_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_20220218T140811_20220218T141709_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_20220218T154505_20220218T155245_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_20220218T155552_20220218T155727_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_20220218T160240_20220218T160324_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_20220218T172206_20220218T172302_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_20220218T172434_20220218T173105_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_20220218T173105_20220218T173410_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_20220218T173804_20220218T173853_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_20220218T180029_20220218T180330_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_20220218T190248_20220218T191005_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_20220218T192341_20220218T192413_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_20220218T200402_20220218T200520_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_20220218T204422_20220218T204902_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_20220218T204902_20220218T205022_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_20220218T205355_20220218T205439_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_20220218T212654_20220218T213355_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_20220218T222741_20220218T222902_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_20220218T225131_20220218T225343_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_20220218T235601_20220218T235629_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

5.8 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.

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

6.1 P2P Product Format Check

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

Number of products with errors:

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:

C

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220218T000755_20220218T005732_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_220220218T005732_20220218T014710_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_220220218T014710_20220218T023647_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_220220218T023647_20220218T032625_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_220220218T032625_20220218T041601_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_220220218T041601_20220218T050540_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_220220218T050540_20220218T0555516_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_220220218T055516_20220218T064454_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_220220218T064454_20220218T073431_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_220220218T073431_20220218T082409_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_220220218T082409_20220218T091345_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_220220218T091345_20220218T100323_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_220220218T100323_20220218T105300_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_220220218T105300_20220218T114238_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_220220218T114238_20220218T123215_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220220218T123215_20220218T132153_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_220220218T132153_20220218T141129_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_220220218T141129_20220218T150108_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_220220218T150108_20220218T155044_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_220220218T155044_20220218T164022_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_220220218T164022_20220218T172959_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_20220218T172959_20220218T181937_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_20220218T181937_20220218T190913_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_20220218T190913_20220218T195852_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_20220218T195852_20220218T204828_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_20220218T204828_20220218T213806_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_20220218T213806_20220218T222743_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_20220218T222743_20220218T231721_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

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_220220218T190913_20220218T195852_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.

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.

Number of products with errors: 26

P2P Quality Flags (1 Hz & 1 Hz PLRM)

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

Number of products with errors: 3

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: 29

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	193	193	5	188	0
SIR_IOPR1B	104	102	0	99	3
SIR_IOPN1B	102	104	0	104	0
SIR_IOPM_2	193	193	133	60	0
SIR_IOPR_2	104	99	43	56	0
SIR_IOPN_2	99	104	39	64	1
SIR IOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

13

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	ISSOPOBHRNO	-	-	-	-	-	-
SIR_IOPN1B	0	0	0	0	3						
SIR_IOPR_2	1	1	1	1	0						
,											
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

SCSTODHRNCDF

SequenceCounterStepTODHRNetCDF

Number of QCC reports with warnings

1934

Total nun	ahor of occ	urrancae of	each warning

	Total names of countries								
Ī	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
Ī	SIR_IOPM1B	188	0	0	0	0	0	0	
	SIR_IOPM_2	0	0	42	40	0	48	0	
	SIR_IOPN1B	101	0	0	0	0	0	0	
	SIR_IOPN_2	0	0	10	31	3	22	26	
	SIR_IOPR1B	101	0	0	0	0	0	0	
	SIR_IOPR_2	0	1	22	29	2	24	22	

	Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
ſ	SIR_IOPM1B	0	0	0	0	0	0	0
	SIR_IOPM_2	42	1	38	0	0	0	0
	SIR_IOPN1B	0	0	0	0	0	0	0
	SIR_IOPN_2	18	1	0	0	13	0	30
	SIR_IOPR1B	0	0	0	0	0	0	0
	SIR IOPR 2	13	7	0	30	0	37	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	26	0	0	3	23	0	4
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	23	9	34	43	22
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	29	0	2	47	22	7

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_IOPM1B	0	0	0	1	1	0	0
SIR_IOPM_2	33	0	4	1	1	0	0
SIR_IOPN1B	0	0	0	0	0	0	50
SIR_IOPN_2	27	25	8	0	0	0	0
SIR_IOPR1B	0	0	0	0	0	0	104
SIR_IOPR_2	22	33	1	0	0	3	0

	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
ſ	SIR_IOP_2_	14	29	29	5	28	18	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	7		27	19	14	29	16

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_IOP_2_	23	27	18	9	29		

311 <u>10</u> F_2_	20 21 10	0				
Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
	T and the second					

The sequence counter should be modulo 4 higher with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: 1

L1B and L2 Product name
0 P2P Product name
CS_OFFL_SIR_IOP_2_20220218T231721_20220219T000657_C002