

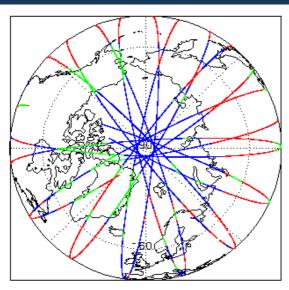
1. Overview

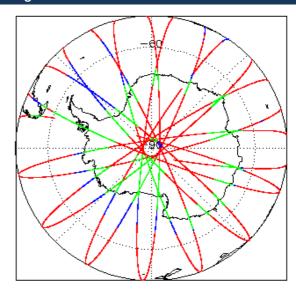
Report Production:	03-Mar-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

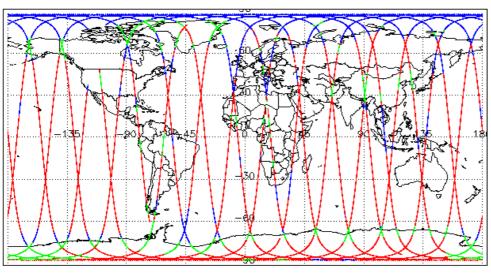
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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 and 7.2

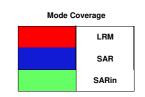
Mi	ssion / Instru	ment News
2	27-Feb-2022	None
2	28-Feb-2022	None
0	01-Mar-2022	Nothing planned

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:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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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_20220228T051130_20220228T051502_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220228T210457_20220228T211754_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220228T005430_20220228T005448_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220228T032344_20220228T034500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220228T034503_20220228T034702_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220228T040008_20220228T040152_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220228T192132_20220228T194308_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220228T004930_20220228T005430_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220228T072025_20220228T072319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220228T103919_20220228T104135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220228T204042_20220228T204451_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220228T222236_20220228T222509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220228T225725_20220228T225822_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220228T225922_20220228T230208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220228T035256_20220228T035349_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220228T103346_20220228T103536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220228T103736_20220228T103919_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220228T171044_20220228T171121_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220228T172132_20220228T172443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220228T222717_20220228T223003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220228T232944_20220228T233512_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:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220228T005430_20220228T005448_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_IOPM_2_20220228T035439_20220228T035549_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_20220228T053321_20220228T053330_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_20220228T093012_20220228T094637_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_20220228T140802_20220228T140842_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_20220228T000330_20220228T000518_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_20220228T004930_20220228T005430_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean	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_20220228T031410_20220228T031615_C001	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_20220228T045206_20220228T045524_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_20220228T050046_20220228T050205_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_20220228T063059_20220228T063419_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_20220228T063941_20220228T064105_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_20220228T072025_20220228T072319_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_20220228T080732_20220228T080928_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_20220228T081803_20220228T081937_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_20220228T090119_20220228T090220_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_20220228T095534_20220228T095741_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_20220228T112551_20220228T112738_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_20220228T114250_20220228T114454_C001	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 Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20220228T115520_20220228T115732_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_20220228T131517_20220228T131720_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_20220228T163347_20220228T163500_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220228T181039_20220228T181342_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_20220228T194422_20220228T194722_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_20220228T194942_20220228T195459_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_20220228T204042_20220228T204451_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_20220228T212420_20220228T212654_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_20220228T222236_20220228T222509_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_20220228T230211_20220228T230521_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_20220228T235858_20220301T000118_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_20220228T004222_20220228T004325_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_20220228T004325_20220228T004930_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_20220228T022444_20220228T022952_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_20220228T035256_20220228T035349_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220228T035407_20220228T035439_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220228T035819_20220228T040007_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220228T040343_20220228T041152_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_20220228T054224_20220228T055059_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_20220228T072320_20220228T073038_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_20220228T090220_20220228T090804_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_20220228T104135_20220228T104624_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_20220228T104624_20220228T104819_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220228T122004_20220228T122525_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_20220228T124046_20220228T124151_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220228T135827_20220228T140802_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_20220228T153538_20220228T154312_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_20220228T171442_20220228T172132_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_20220228T172132_20220228T172443_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_20220228T185318_20220228T190032_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_20220228T190032_20220228T190257_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_20220228T190502_20220228T191228_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220228T203315_20220228T203409_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220228T203502_20220228T203927_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_20220228T203927_20220228T204042_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_20220228T221301_20220228T221757_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_20220228T221757_20220228T221934_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_20220228T235249_20220228T235858_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220228T051130_20220228T051502_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220228T210457_20220228T211754_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220227T235508_20220228T000330_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_20220228T000537_20220228T002832_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_20220228T010439_20220228T010802_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_20220228T010821_20220228T013145_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_20220228T013409_20220228T013606_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_20220228T013653_20220228T014149_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_20220228T014427_20220228T014712_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_20220228T014727_20220228T020949_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_20220228T024322_20220228T031054_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_20220228T031616_20220228T032214_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_20220228T032344_20220228T034500_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_20220228T034704_20220228T035231_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_20220228T041509_20220228T044931_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_20220228T045524_20220228T050046_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_20220228T050222_20220228T050713_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_20220228T050720_20220228T050842_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_20220228T053502_20220228T053529_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_20220228T053844_20220228T054122_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_20220228T055458_20220228T060329_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_20220228T060614_20220228T062901_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_20220228T063534_20220228T063941_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_20220228T064105_20220228T065445_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_20220228T065633_20220228T070232_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

COLORIT. SRIL DPNLL_2003009TR39104_2003009TR39104_COLORIT. COLORIT. SRIL DPNLL_2003009TR39104_2003009TR39104_COLORIT. SRIL DPNLL_2003009TR39104_COLORIT. SRIL DPNLL_2		OCOC Altirates Pages Quality OCOC	The OCCO Altimates Dance and Declaration Cupits Flore have been act
Declaration Courty Col. DPTL SRI JOPA 2 20000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220228T070846_20220228T070906_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SC GPF_SR_GPM_2_20000009710048_20000 CR_GPF_SR_GPM_2_20000009710048_20000 CR_GPF_SR_GPM_2_20000009710048_20000009710048_20000 CR_GPF_SR_GPM_2_20000009710048_20000009710048_20000 CR_GPF_SR_GPM_2_20000009710048_20000009710048_20000009710048_20000009710048_20000009710048_20000009710048_20000009710048_200000009710048_200000009710048_200000009710048_200000009710048_200000009710048_200000009710048_2000000000009710048_20000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220228T073105_20220228T073135_C001	0 7	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Coally CS OFF, SRI IOPM 2 202020281091447_382020281091490 C001 CS OFF, SRI IOPM 2 202020281091929 20202281091929 C001 CS OFF, SRI IOPM 2 202020281091929 2020228109299 C001 CS OFF, SRI IOPM 2 20202028109192 2020228109299 C001 CS OFF, SRI IOPM 2 20202028109192 2020228109192 C001 CS OFF, SRI IOPM 2 20202028109192 2020228109193 C001 CS OFF, SRI IOPM 2 20202028109193 C001 CS OFF, SRI IOPM 2 2020202811093 C001 CS OFF, SRI IOPM 2 20202028111093 C001 CS OFF, SRI IOPM 2 20202028111093 C001 CS OFF, SRI IOPM 2 20202028111093 C001 CS	CS_OFFL_SIR_IOPM_2_20220228T073332_20220228T080720_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SRI_OFM_2_9202028108509_22020281109285_0001	CS_OFFL_SIR_IOPM_2_20220228T080928_20220228T081427_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Segment Coulty Code Afference Pages, SSHA, SWH Assessment Code Code Code Afference Pages, SSHA, SWH Assessment Code Code Afference Pages, SSHA, SWH Assessment Code Code Code Code Code Code Code Code	CS_OFFL_SIR_IOPM_2_20220228T081433_20220228T081440_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Custiny, COCG Armises Pragra and Backscatter Custiny Flags have been for consist or consists. CS OFFL SIRI IOPM 2 20220225T06526 20220225T06510 C001 CS OFFL SIRI IOPM 2 20220225T06526 20220225T06510 C001 CS OFFL SIRI IOPM 2 20220225T06516 20220225T06510 C001 CS OFFL SIRI IOPM 2 20220225T06535 20220225T06510 C001 CS OFFL SIRI IOPM 2 20220225T06535 20220225T06510 C001 CS OFFL SIRI IOPM 2 20220225T06535 20220225T06505 C001 CS OFFL SIRI IOPM 2 20220225T06505 20220225T06505 C001 CS OFFL SIRI IOPM 2 20220225T16505 20220225T06505 C001 CS OFFL SIRI IOPM 2 20220225T16505 20220225T16505 C001 CS OFFL SIRI IOPM 2 20220225T16	CS_OFFL_SIR_IOPM_2_20220228T081447_20220228T081803_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Bubscaciter Caulity Coop. Afternoor Prago and Bubscaciter Caulity Stage have been set to row or more records. CS_OFFL_SIR_OPM_2_2020228T08198_2020228T09119_0001 CS_OFFL_SIR_OPM_2_2020228T091983_2020228T09119_0001 CS_OFFL_SIR_OPM_2_2020228T091983_2020228T091912_0001 CS_OFFL_SIR_OPM_2_2020228T091983_2020228T09193_0001 CS_OFFL_SIR_OPM_2_2020228T091983_2020228T09193_0001 CS_OFFL_SIR_OPM_2_2020228T091983_2020228T09199_0001 CS_OFFL_SIR_OPM_2_2020228T091983_2020228T09199_0001 CS_OFFL_SIR_OPM_2_2020228T091983_2020228T09199_0001 CS_OFFL_SIR_OPM_2_2020228T09199_2_2020228T09193_0001 CS_OFFL_SIR_OPM_2_2020228T09199_2_2020228T09193_0001 CS_OFFL_SIR_OPM_2_2020228T09199_2_2020228T09193_0001 CS_OFFL_SIR_OPM_2_2020228T09199_2_2020228T09193_0001 CS_OFFL_SIR_OPM_2_2020228T09199_2_2020228T09193_0001 CS_OFFL_SIR_OPM_2_2020228T09199_2_2020228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09199_2_2020228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09199_2_20202228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09199_2_20202228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09193_2_20202228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09193_2_20202228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09193_2_20202228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09193_2_20202228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09193_2_20202228T09193_0001 CS_OFFL_SIR_OPM_2_20202228T09193_2_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_202020228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_0002228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_0002228T109193_0001 CS_OFFL_SIR_OPM_2_20202228T109193_000228	CS_OFFL_SIR_IOPM_2_20220228T082030_20220228T082235_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Badocater Cually CS OFFL SIR IOPM 2 20220228109109 2022022810912 0001 CS OFFL SIR IOPM 2 20220228109109 202202281092411.C001 CS OFFL SIR IOPM 2 20220228109109 202202281092411.C001 CS OFFL SIR IOPM 2 202202281091093 202202281092411.C001 CS OFFL SIR IOPM 2 202202281091093 202202281092411.C001 CS OFFL SIR IOPM 2 202202281092092 2022028109241.C001 CS OFFL SIR IOPM 2 20220228109093 2022028109292 2022028109292 CO01 CS OFFL SIR IOPM 2 20220228109293 2022028109292 CO01 CS OFFL SIR IOPM 2 20220228109293 2022028109292 CO01 CS OFFL SIR IOPM 2 20220228110939 20220228110939 2022028110939 2022028111253 CO01 CS OFFL SIR IOPM 2 202202281110939 20220228111253 CO01 CS OFFL SIR IOPM 2 202202281110939 20220228111253 CO01 CS OFFL SIR IOPM 2 202202281111092 20220228111253 CO01 CS OFFL SIR IOPM 2 202202281111093 20220228111253 CO01 CS OFFL SIR IOPM 2 202202281111109 20220228111253 CO01 CS OFFL SIR IOPM 2 202202281111109 20220228111253 CO01 CS OFFL SIR IOPM 2 20220228111109 20220228111253 CO01 CS OFFL SIR IOPM 2 202202281111109 202202281111253 CO01 CS OFFL SIR IOPM 2 202202281111109	CS_OFFL_SIR_IOPM_2_20220228T082526_20220228T085640_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Cuality CS OFFL SIR JOPM 2 20220228T09895 2022028T09295 CO01 CS OFFL SIR JOPM 2 20220228T09895 2022028T09895 CO01 CS OFFL SIR JOPM 2 20220228T09895 CO01 CS OFFL SIR JOPM 2 20220228T10985 CO02028T10990 CO01 CS OFFL SIR JOPM 2 20220228T10985 CO02028T10990 CO01 CS OFFL SIR JOPM 2 20220228T10985 CO02028T10990 CO01 CS OFFL SIR JOPM 2 20220228T10985 CO20228T10990 CO01 CS OFFL SIR JOPM 2 20220228T10985 CO20228T10990 CO01 CS OFFL SIR JOPM 2 20220228T10985 CO20228T11099 CO01 CS OFFL SIR JOPM 2 20220228T11052 CO20228T11099 CO01 CS OFFL SIR JOPM 2 20220228T11052 CO20228T11099 CO01 CS OFFL SIR JOPM 2 20220228T11052 CO20228T11253 CO01 CS OFFL SIR JOPM 2 20220228T11414 (2022028T11253 CO01 CS OFFL SIR JOPM 2 20220228T11414 (CS_OFFL_SIR_IOPM_2_20220228T085918_20220228T090119_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Ouality Flags have been Altmeter Range and Backscatter Ouality Flags and the OCOS Altmeter Range and Backscatter Ouality Flags and Backscatter Ouality Flags have been Altmeter Range and Backscatter Ouality Flags have been Set for one or more records CS_OFFL_SIR_JOPM_2_20220228T100318_20220228T1095326_C001 CS_OFFL_SIR_JOPM_2_20220228T100318_20220228T10708_C001 CS_OFFL_SIR_JOPM_2_20220228T100318_20220228T1003047_C001 CS_OFFL_SIR_JOPM_2_20220228T10928_20220228T1003047_C001 CS_OFFL_SIR_JOPM_2_20220228T10928_20220228T109328_C001 CS_OFFL_SIR_JOPM_2_20220228T10928_20220228T109328_C001 CS_OFFL_SIR_JOPM_2_20220228T10928_20220228T109328_C001 CS_OFFL_SIR_JOPM_2_20220228T10938_20220228T109328_C001 CS_OFFL_SIR_JOPM_2_20220228T110938_20220228T10938_C001 CS_OFFL_SIR_JOPM_2_20220228T110938_20220228T112537_C001 CS_OFFL_SIR_JOPM_2_20220228T1110938_20220228T112537_C001 CS_OFFL_SIR_JOPM_2_20220228T1110938_20220228T112537_C001 CS_OFFL_SIR_JOPM_2_20220228T1117298_20220228T112537_C001 CS_OFFL_SIR_JOPM_2_20220228T1117298_20220228T112537_C001 CS_OFFL_SIR_JOPM_2_20220228T1141414_20220228T114290_C001 CS_OFFL_SIR_JOPM_2_20220228T1141414_20220228T114290_C001 CS_OFFL_SIR_JOPM_2_20220228T1141414_20220228T114290_C001 CS_OFFL_SIR_JOPM_2_20220228T1141444_20220228T114290_C001 CS_OFFL_SIR_JOPM_2_20220228T1141444_20220228T114290_C001 CS_OFFL_SIR_JOPM_2_20220228T1141444_20220228T114290_C001 CS_OFFL_SIR_JOPM_2_20220228T114498_20220228T114590_C001 CS_OFFL_SIR_JOPM_2_2022022	CS_OFFL_SIR_IOPM_2_20220228T091108_20220228T091123_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality (COCS Altimeter Range and Backscatter Quality Flags have been after the COCS Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220228T093012_20220228T094837_C001 CS_OFFL_SIR_IOPM_2_20220228T094818_20220228T095328_C001 CS_OFFL_SIR_IOPM_2_20220228T094818_20220228T095328_C001 CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T095328_C001 CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T101708_C001 CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T101708_C001 CS_OFFL_SIR_IOPM_2_20220228T1095856_20220228T101708_C001 CS_OFFL_SIR_IOPM_2_20220228T1095856_20220228T10958_20220228T1095856_20220228T110958_20202228T110958_	CS_OFFL_SIR_IOPM_2_20220228T091633_20220228T092411_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flackscatter Quality, QCOG Altimeter Range and Backscatter Quality Flags have been set one or more records CS_OFFL_SIR_IOPM_2_20220228T094816_20220228T10708_C001 CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T10708_C001 CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T10708_C001 CS_OFFL_SIR_IOPM_2_20220228T101928_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T10928_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T10928_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T10928_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T10928_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T110928_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T110928_20220228T1103047_C001 CS_OFFL_SIR_IOPM_2_20220228T110928_20220228T110938_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T110938_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T110938_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T113038_C001 CS_OFFL_SIR_IOPM_2_20220228T112738_20220228T113038_C001 CS_OFFL_SIR_IOPM_2_20220228T11414_20220228T113038_C001 CS_OFFL_SIR_IOPM_2_20220228T11414_20220228T11450_C001 CS_OFFL_SIR_IOPM_2_20220228T11414_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T114153_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T114153_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T114153_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11453_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11453_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11573_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11573_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11550_2001 CS_OFFL_SIR	CS_OFFL_SIR_IOPM_2_20220228T092852_20220228T092959_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T101708_C001 CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T10928_20220228T103047_C001 CS_OFFL_SIR_IOPM_2_20220228T10928_20220228T10912_C001 CS_OFFL_SIR_IOPM_2_20220228T10928_20220228T10912_C001 CS_OFFL_SIR_IOPM_2_20220228T105855_20220228T10912_C001 CS_OFFL_SIR_IOPM_2_20220228T11052_20220228T10912_C001 CS_OFFL_SIR_IOPM_2_20220228T11052_20220228T10912_C001 CS_OFFL_SIR_IOPM_2_20220228T11052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112538_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T113238_C001 CS_OFFL_SIR_IOPM_2_20220228T1141454_20220228T114550_C001 CS_OFFL_SIR_IOPM_2_20220228T114539_20220228T112539_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T112539_C001 CC_OFFL_SIR_IOPM_2_20220228T115733_20220228T112539_C001 CC_OFFL_SIR_IOPM_2_20220228T115733_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T115733_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T115733_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T11539_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T11539_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T11539_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_20220228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_C0020228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_C0020228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_C020228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_C020228T12539_C001 CC_OFFL_SIR_IOPM_2_20220228T112539_C002028T12539_C001 CC_	CS_OFFL_SIR_IOPM_2_20220228T093012_20220228T094637_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM_2_20220228T10928_20220228T103047_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM_2_20220228T11052_20220228T112537_C001 CS_OFFL_SIR_JOPM_2_20220228T112738_20220228T113238_C001 CS_OFFL_SIR_JOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_JOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_JOPM_2_20220228T114454_20220228T11550_C001 CS_OFFL_SIR_JOPM_2_20220228T114533_20220228T11550_C001 CS_OFFL_SIR_JOPM_2_20220228T115733_20220228T112530_C001 CS_OFFL_SIR_JOPM_2_20220228T115733_20220228T112530_C001 CS_OFFL_SIR_JOPM_2_20220228T115733_20220228T112530_C001 CS_OFFL_SIR_JOPM_2_20220228T115733_20220228T112530_C001 CS_OFFL_SIR_JOPM_2_20220228T115733_20220228T112530_C001 CS_OFFL_SIR_JOPM_2_20220228T115733_20220228T12553_C001 CS_OFFL_SIR_JOPM_2_20220228T11553_C001 CS_OFFL_SIR_JOPM_2_20220228T11553_C001 CS_OFFL_SIR_JOPM_2_20220228T11553_C001 CS_OFFL_SIR_JOPM_2_20220228T11553_C001 CS_OFFL_SIR_JOPM_2_20220228T112530_C001 CS_OFFL_SIR_JOPM_2_20220228T112530_C001	CS_OFFL_SIR_IOPM_2_20220228T094816_20220228T095326_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20220228T110585_20220228T110912_C001 CS_OFFL_SIR_IOPM_2_20220228T110582_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111253_2001 CS_OFFL_SIR_IOPM_2_20220228T114738_20220228T113238_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T1141454_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T114533_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11553_20020028T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11553_200200228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11553_20020028T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11553_20020028T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11553_20020028T12553_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12553_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12553_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T12553_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12559_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T1	CS_OFFL_SIR_IOPM_2_20220228T100318_20220228T101708_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001 CS_OFFL_SIR_IOPM_2_20220228T112738_20220228T113238_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T114544_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T114544_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T114544_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12550_C001 CS_OFFL_SIR_IOPM_2_20220228T12550_C001 CS_OFFL_SIR_IO	CS_OFFL_SIR_IOPM_2_20220228T101928_20220228T103047_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220228T112738_20220228T113238_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T11450_C001 CS_OFFL_SIR_IOPM_2_20220228T114153_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11454_20220228T11550_C001 CS_OFFL_SIR_IOPM_2_20220228T11453_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12352_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CCG_Altimeter Range Quality, CCOG_Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CCG_Altimeter Range Quality, CCOG_Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CCG_Altimeter Range Quality, CCOG_Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CCG_Altimeter Range Quality, CCOG_Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20220228T12353_20220228T123303_C001 CCG_Altimeter Range Quality, CCOG_Backscatter Quality Flags have been s	CS_OFFL_SIR_IOPM_2_20220228T105855_20220228T110912_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001 CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T115520_C001 CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T115520_C001 CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T115520_C001 CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T115520_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T12553_C001 CS_OFFL_SIR_IOPM_2_20220228T12553_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFF	CS_OFFL_SIR_IOPM_2_20220228T111052_20220228T112537_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T115520_C001 CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T115520_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001 CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T120300_C001 CS_OFFL_SIR_IOPM_2_20220228T121539_20220228T121533_C001 CS_OFFL_SIR_IOPM_2_20220228T121539_20220228T121533_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_2022022	CS_OFFL_SIR_IOPM_2_20220228T112738_20220228T113238_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001 CS_OFFL_SIR_IOPM_2_20220228T12539_20220228T121553_C001 CS_OFFL_SIR_IOPM_2_20220228T121539_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality COG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 COG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20	CS_OFFL_SIR_IOPM_2_20220228T114114_20220228T114250_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220228T121539_20220228T121553_C001 CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T123303_C001 CS_OFFL_SIR_IOPM_2_20220228T	CS_OFFL_SIR_IOPM_2_20220228T114454_20220228T115520_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20220228T12359_20220228T123303_C001 Backscatter Quality Gor one or more records OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_IOPM_2_20220228T115733_20220228T120300_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_IOPM_2_20220228T121539_20220228T121553_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_IOPM_2_20220228T123252_20220228T123303_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Altimeter Range and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality Set for one or more records	CS_OFFL_SIR_IOPM_2_20220228T124152_20220228T130507_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220228T130815_20220228T131156_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_20220228T130815_20220228T131156_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPM_2_20220228T131218_20220228T131517_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_20220228T131801_20220228T134415_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_20220228T141907_20220228T144421_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_20220228T144558_20220228T145111_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_20220228T145117_20220228T145444_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_20220228T145736_20220228T153138_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_20220228T154818_20220228T155127_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_20220228T155451_20220228T160150_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_20220228T160155_20220228T161235_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_20220228T161750_20220228T162415_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_20220228T162559_20220228T163145_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_20220228T163659_20220228T171044_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_20220228T172443_20220228T172529_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_20220228T174915_20220228T180402_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_20220228T180528_20220228T181039_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_20220228T181558_20220228T183852_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_20220228T184106_20220228T185104_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_20220228T190257_20220228T190314_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_20220228T192132_20220228T194308_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_20220228T194722_20220228T194942_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_20220228T195622_20220228T202654_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_20220228T204533_20220228T210432_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_20220228T210457_20220228T211754_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_20220228T212654_20220228T212851_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_20220228T213525_20220228T215114_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_20220228T215317_20220228T220238_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_20220228T220852_20220228T220930_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_20220228T222048_20220228T222235_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_20220228T222531_20220228T222717_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_20220228T223003_20220228T224159_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_20220228T230521_20220228T230815_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_20220228T230824_20220228T231255_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_20220228T231454_20220228T232944_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T021029_20220228T021212_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T031410_20220228T031615_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T071748_20220228T071817_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T090804_20220228T090818_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T094637_20220228T094816_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T103537_20220228T103736_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T141637_20220228T141652_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T173151_20220228T173201_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T031055_20220228T031215_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T050205_20220228T050222_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T060329_20220228T060614_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T063528_20220228T063534_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T073238_20220228T073238_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T103346_20220228T103536_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T185104_20220228T185157_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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Number of products with errors:

Product

Product	Test Failed	Description
CS OFFE SIR IOPN 2 202202281003008 202202281003356 C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20220228T004930_20220228T005430_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for on more records
CS_OFFL_SIR_IOPN_2_20220228T013249_20220228T013408_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 Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T013606_20220228T013653_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for or more records
CS_OFFL_SIR_IOPN_2_20220228T021029_20220228T021212_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for or more records
CS_OFFL_SIR_IOPN_2_20220228T022229_20220228T022305_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T040334_20220228T040343_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T041153_20220228T041509_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T045206_20220228T045524_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have beset for one or more records
CS_OFFL_SIR_IOPN_2_20220228T050046_20220228T050205_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T051502_20220228T051624_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T052259_20220228T052444_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T053331_20220228T053359_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T053441_20220228T053502_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T070232_20220228T070438_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T072025_20220228T072319_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 FI and the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T080732_20220228T080928_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 FI and the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T090119_20220228T090220_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have t set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T095534_20220228T095741_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T103537_20220228T103736_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 FI and the OCOG Altimeter Range and Backscatter Quality Flags have t set for one or more records
CS_OFFL_SIR_IOPN_2_20220228T103920_20220228T104135_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_IOPN_2_20220228T105641_20220228T105854_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for comore records
CS_OFFL_SIR_IOPN_2_20220228T115520_20220228T115732_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T121554_20220228T122003_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T122525_20220228T122551_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_IOPN_2_20220228T123503_20220228T123534_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_IOPN_2_20220228T131517_20220228T131720_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records

CS_OFFL_SIR_IOPN_2_20220228T141726_20220228T141825_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_20220228T153203_20220228T153537_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_20220228T163347_20220228T163500_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_20220228T171229_20220228T171442_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_20220228T173151_20220228T173201_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_20220228T180402_20220228T180528_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_20220228T191958_20220228T192046_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_20220228T194422_20220228T194722_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_20220228T194942_20220228T195459_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_20220228T204042_20220228T204451_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_20220228T212851_20220228T213029_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_20220228T220239_20220228T220617_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_20220228T222236_20220228T222509_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_20220228T224200_20220228T224549_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_20220228T225725_20220228T225822_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_20220228T231256_20220228T231439_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_20220228T235858_20220301T000118_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_20220228T004325_20220228T004930_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_20220228T010217_20220228T010231_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_20220228T022034_20220228T022228_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_20220228T022444_20220228T022952_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_20220228T035407_20220228T035439_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_20220228T035819_20220228T040007_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_20220228T040343_20220228T041152_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_20220228T052919_20220228T053321_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_20220228T054224_20220228T055059_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

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CS_OFFL_SIR_IOPR_2_20220228T072320_20220228T073038_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T090220_20220228T090804_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_20220228T091205_20220228T091206_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_20220228T091210_20220228T091500_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_20220228T091518_20220228T091633_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_20220228T095742_20220228T100318_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_20220228T101708_20220228T101928_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_20220228T103346_20220228T103536_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_20220228T103736_20220228T103919_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_20220228T121241_20220228T121539_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_20220228T122004_20220228T122525_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_20220228T124046_20220228T124151_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_20220228T131720_20220228T131801_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_20220228T135827_20220228T140802_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_20220228T153538_20220228T154312_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_20220228T154347_20220228T154818_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_20220228T161235_20220228T161749_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_20220228T171044_20220228T171121_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_20220228T171442_20220228T172132_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_20220228T172132_20220228T172443_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_20220228T183852_20220228T184106_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_20220228T185318_20220228T190032_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_20220228T190032_20220228T190257_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_20220228T190502_20220228T191228_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_20220228T195459_20220228T195622_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_20220228T203502_20220228T203927_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_20220228T215115_20220228T215317_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_20220228T221301_20220228T221757_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_20220228T221757_20220228T221934_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220228T222718_20220228T223003_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_20220228T233513_20220228T233820_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_20220228T233822_20220228T233833_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_20220228T235249_20220228T235858_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

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

5.8 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.

Number of products with errors: 13

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.

lumber of products with errors:

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:

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20220227T235824_20220228T004802_C001		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
	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20220228T013739_20220228T022717_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_IOP_2_20220228T022717_20220228T031654_C001	Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20220228T031654_20220228T040632_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_20220228T040632_20220228T045609_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_20220228T045609_20220228T054546_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_20220228T054546_20220228T063523_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_20220228T063523_20220228T072501_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20220228T072501_20220228T081438_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_20220228T081438_20220228T090416_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_20220228T090416_20220228T095352_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_20220228T095352_20220228T104330_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_20220228T104330_20220228T113307_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_20220228T113307_20220228T122245_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20220228T122245_20220228T131222_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_20220228T131222_20220228T140200_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_20220228T140200_20220228T145137_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_20220228T145137_20220228T154114_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_20220228T154114_20220228T163051_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_20220228T163051_20220228T172029_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_20220228T172029_20220228T181006_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_20220228T181006_20220228T185944_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_20220228T185944_20220228T194921_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_20220228T194921_20220228T203858_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_20220228T203858_20220228T212835_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20220228T212835_20220228T221813_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_20220228T221813_20220228T230750_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_20220228T230750_20220228T235728_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_20220228T235728_20220301T004705_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)

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20220228T045609_20220228T054546_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_2_20220228T203858_20220228T212835_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:

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:

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:

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:

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:

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	211	211	6	205	0
SIR_IOPR1B	122	102	4	97	1
SIR_IOPN1B	102	122	1	121	0
SIR_IOPM_2	211	211	153	58	0
SIR_IOPR_2	122	101	45	56	0
SIR_IOPN_2	101	122	45	76	1
SIR IOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

11

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	RRTAISSOPO	BHRNCDF	-	-	-	-	-
SIR_IOPN1B	0	0	0	0	1						
SIR_IOPR_2	1	1	1	1	0						
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
CID IOD 2	- 1	- 1	- 1	-1							

Test Description Key:	est 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						
RRTAISSOPOBHRNCD	RangeRecordTAlStartStopOPOrBlankHRNetC	The time value should be between the the record TAI start/stop times of the MPH with a margin of 0.5 s - NetCDF						

7.2 QCC Warnings

Number of QCC reports with warnings

2062

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI
SIR_IOPM1B	205	0	0	0	0	0	0
SIR_IOPM_2	0	0	41	41	0	41	0
SIR_IOPN1B	96	0	0	0	0	0	0
SIR_IOPN_2	0	0	9	29	5	23	25
SIR_IOPR1B	117	0	0	0	0	0	0
SIR_IOPR_2	0	1	28	43	1	31	25

Product Type	RBSZOPOEPNCDF	RDACONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	32	0	34	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	14	0	0	0	17	0	26
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	15	1	0	37	0	47	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	31	0	0	5	26	0	3
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	19	11	39	44	26
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	37	0	3	59	26	9

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_IOPM1B	0	0	0	0	1	0	0
SIR_IOPM_2	40	0	3	0	1	0	0
SIR_IOPN1B	0	0	0	0	0	0	48
SIR_IOPN_2	27	28	11	0	0	0	0
SIR_IOPR1B	0	0	0	0	0	0	121
SIR_IOPR_2	34	43	1	1	1	1	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	15	26	28	6	29	17	28

Product Type	RDACONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR IOP 2	1	16	24	15	16	29	18

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•
SIR IOP 2	23	29	17	13	29		

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RDACONCDF	RangeDynamicAtmosphericCorrectionOceanNetCDF	#N/A
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
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	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: