

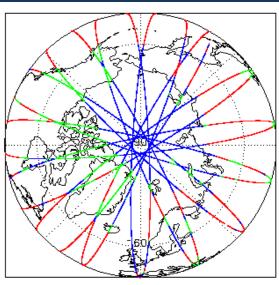
1. Overview

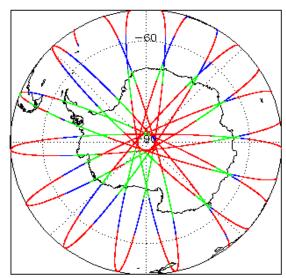
Report Production:	06-Jan-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

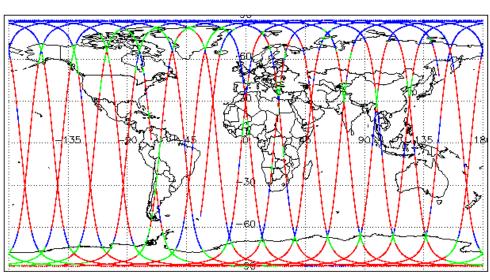
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 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 7.2	See Section 7.2

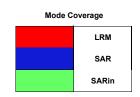
Mission / In	strument News
23-Dec-20	None
24-Dec-20	None
25-Dec-20	Nothing planned

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 binary product file (.DBL).

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

0

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211224T201513_20211224T201544_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: 25

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211224T012552_20211224T013515_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211224T023036_20211224T023156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211224T065821_20211224T073021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211224T082207_20211224T082359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T015447_20211224T015658_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T033406_20211224T033613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T041416_20211224T041606_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T055351_20211224T055530_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T065338_20211224T065821_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T132048_20211224T132345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T141626_20211224T142236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T145813_20211224T150230_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T181159_20211224T181746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T195337_20211224T195510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T201544_20211224T201749_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211224T214418_20211224T214449_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T005107_20211224T005652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T050659_20211224T051130_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T095153_20211224T095228_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T095653_20211224T100127_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T132345_20211224T133057_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T150230_20211224T150925_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T155912_20211224T160037_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T164053_20211224T164930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211224T203532_20211224T203731_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 binary product file (.DBL).

Number of products with errors: 0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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.

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20211224T001313_20211224T001738_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_20211224T005653_20211224T005928_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_20211224T015213_20211224T015324_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_20211224T022901_20211224T023036_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_20211224T023406_20211224T023743_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_20211224T033133_20211224T033358_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_20211224T033406_20211224T033613_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_20211224T041416_20211224T041606_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_20211224T042425_20211224T042646_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_20211224T051130_20211224T051557_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_20211224T065338_20211224T065821_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20211224T073350_20211224T073729_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_20211224T083500_20211224T083652_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_20211224T091315_20211224T091634_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_20211224T092146_20211224T092311_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_20211224T100406_20211224T100512_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_20211224T110052_20211224T110200_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_20211224T114317_20211224T114430_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_20211224T132048_20211224T132345_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_20211224T141626_20211224T142236_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_20211224T154703_20211224T154933_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_20211224T155559_20211224T155911_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_20211224T173649_20211224T173806_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_20211224T181159_20211224T181746_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_20211224T204600_20211224T204726_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_20211224T205247_20211224T205555_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_20211224T214418_20211224T214449_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_20211224T222544_20211224T222805_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_20211224T223147_20211224T223520_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_20211224T000742_20211224T001203_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_20211224T001203_20211224T001313_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_20211224T014540_20211224T014859_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_20211224T014859_20211224T015213_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_20211224T015955_20211224T020103_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20211224T030456_20211224T031103_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_20211224T032521_20211224T033133_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_20211224T050659_20211224T051130_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_20211224T064417_20211224T065337_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_20211224T082453_20211224T083240_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_20211224T100512_20211224T101256_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_20211224T114430_20211224T115152_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_20211224T132345_20211224T133057_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_20211224T135015_20211224T135217_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_20211224T150230_20211224T150925_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_20211224T164053_20211224T164930_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_20211224T181746_20211224T182527_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_20211224T195720_20211224T200341_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_20211224T200341_20211224T200628_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_20211224T213551_20211224T214241_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_20211224T214241_20211224T214417_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_20211224T231649_20211224T232140_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_20211224T232140_20211224T232304_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211224T201513_20211224T201544_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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_20211223T232928_20211224T000019_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_20211224T000057_20211224T000154_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_20211224T001816_20211224T003632_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_20211224T003733_20211224T005107_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_20211224T010245_20211224T010629_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_20211224T010829_20211224T012350_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_20211224T012552_20211224T013515_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_20211224T013919_20211224T013931_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_20211224T015324_20211224T015447_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_20211224T015724_20211224T015954_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_20211224T020103_20211224T021434_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_20211224T023036_20211224T023156_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_20211224T023324_20211224T023344_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_20211224T023743_20211224T024532_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_20211224T024813_20211224T030256_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_20211224T031755_20211224T031857_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_20211224T031920_20211224T031921_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_20211224T034055_20211224T041301_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_20211224T041606_20211224T041819_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_20211224T041834_20211224T042425_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_20211224T042753_20211224T045240_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_20211224T052451_20211224T055112_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_20211224T055818_20211224T060241_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_20211224T060633_20211224T063350_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_20211224T064227_20211224T064417_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_20211224T065821_20211224T073021_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.

Big CHPL SPL (DML 2_2011294T04102 2011294T04100 Code) CPUPL SPL (DML 2_2011294T04102 2011294T04100 Code) CPUPL SPL (DML 2_2011294T04102 2011294T04100 Code) CPUPL SPL (DML 2_2011294T04100 Code) CPUPL SPL (DML 2_2011294T0410 Code) CPUPL SPL (DML 2_2011294T04100 Code) CPUPL SPL (DML 2_2011294T04100 Code) CPUPL SPL (DML 2_2011294T0410 Code) CPUPL SPL (DM			
Big CPPL_2 2911924T056819_2911924T05815_CDST	CS_OFFL_SIR_IOPM_2_20211224T073729_20211224T074307_C001		
and Basication Cuality. Color. 26. [1979] SR [1979] 2. 20211247105025 20211247131050, Color. 27. [1979] SR [1979] 2. 2021124710505 20211247131050, Color. 28. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 29. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 29. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 29. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124710505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 20211247110505 2. 2021124713050, Color. 20. [1979] SR [1979] 2. 2021124713450, 2021124713550, Color. 20. [1979] SR [1979] 2. 2021124713450	CS_OFFL_SIR_IOPM_2_20211224T074612_20211224T075051_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_0FF_SR_0PM_2_001124T10508_221124T1951_001	CS_OFFL_SIR_IOPM_2_20211224T082207_20211224T082359_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Segonder Custy Sego	CS_OFFL_SIR_IOPM_2_20211224T083652_20211224T091008_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
LOG CHILL, SIR JOHN 2, 20211224110580, 202112241100581, 2021 CR. CHILL, SIR JOHN 2, 20211224110580, 202112241100581, 2021 CR. CHILL, SIR JOHN 2, 20211224110580, 202112241100581, 2021 CR. CHILL, SIR JOHN 2, 20211224110581, 202	CS_OFFL_SIR_IOPM_2_20211224T091634_20211224T092146_C001		
### Deskrachte Quality (COC) ### Deskrachte Q	CS_OFFL_SIR_IOPM_2_20211224T092623_20211224T094333_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter (Desity) Geo. OFFL, SIR, IOPM 2, 20211224T110580, 20211224T110581, CO01 Search Allineter Range Quality, COCO Allineter Range and Backscatter Quality Flags have been set for one or more records. The Covern Allineter Range and Backscatter Quality Flags have been set for one or more records. The Covern Allineter Range and Backscatter Quality Flags have been set for one or more records. The Covern Allineter Range and Backscatter Quality Flags have been set for one or more records. The Covern Allineter Range and Backscatter Quality Flags have been set for one or more records. The Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. The Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Sec. OFFL, SIR, IOPM 2, 20211224T113162, 20211224T123161, CO01 Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range set Backscatter Quality Flags have been set for one or more records. Covern Allineter Range Set As SWH has Backscatter Quality Flags have been set for one or more records. Covern Allineter Range Set As SWH has Backscatter Quality Flags have been set for one or more records. Covern Allineter Range Set As SWH has Backscatter Quality Flags have been set for one or more records. Covern Allineter Range Set As SWH has Backscatter Quality Flags have been set for one or more records. Covern Allineter Range Set Bac	CS_OFFL_SIR_IOPM_2_20211224T101503_20211224T104851_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backboarder Caulity Section Se	CS_OFFL_SIR_IOPM_2_20211224T105407_20211224T105634_C001		, ,
and the OCOG Alternater Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211224T113186_20211224T1131818_C001 CS_OFFL_SIR_IOPM_2_20211224T113186_20211224T113818_C001 CS_OFFL_SIR_IOPM_2_20211224T113186_20211224T112330 (2001) CS_OFFL_SIR_IOPM_2_20211224T112382 20211224T112330 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2011224T12330 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2011224T12330 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2011224T12330 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2011224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2011224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2011224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2011224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12383 (2001) CS_OFFL_SIR_IOPM_2_20211224T12353 (2001) CS_OFFL_SIR_IOPM_2_20211224T12353 (2001) CS_OFFL_SIR_IOPM_2_20211224T12353 (2001) CS_OFFL_SIR_IOPM_2_20211224T12353 (2001) CS_OFFL_SIR_IOPM_2_20211224T123553 (2001) CS_OFFL_SIR_IOPM_2_20211224T123553 (2001) CS_OFFL_SIR_IOPM_2_20211224T123553 (2001) CS_OFFL_SIR_IOPM_2_20211224T123553 (2001) CS_OFFL_SIR_IOPM_2_20211224T123553 (2001) CS_OFFL_SIR_IOPM_2_20211224T1315182 (2001) CS_OFFL_SIR_IOPM_2_20211224T1315182 (2001) CS_OFFL_SIR_IOPM_2_20211224T1315182 (2001) CC_OFFL_SIR_IOPM_2_20211224T134055 (2001) CS_OFFL_SIR_IOPM_2_20211224T134055 (2001) CCS_OFFL_SIR_IOPM_2_20211224T134055 (2001) CCS_OFFL_SIR_IOPM_2_20211224T134055 (2001) CCS_OFFL_SIR_IOPM_2_20211224T134055 (2001) CCS_OFFL_SIR_IOPM_2_20211224T134055 (2001) CCS_OFFL_SIR_IOPM_2_20211	CS_OFFL_SIR_IOPM_2_20211224T105640_20211224T110051_C001		
and Backscatter Quality, COCG Allmeter Range and Backscatter Quality Flags have been after for one or more records. CS_OFFL_SR_JOPM_2_20211224T115457_20211224T120011_CO10 CS_OFFL_SR_JOPM_2_20211224T12382_20211224T122001_CO10 CS_OFFL_SR_JOPM_2_20211224T12383_20211224T122001_CO10 CS_OFFL_SR_JOPM_2_20211224T12203_CO10 CS_OFFL_SR_JOPM_2_20211224T12001_CO10 CS_OFFL_SR_JOPM_2_20211224T12001_CO10 CS_OFFL_SR_JOPM_2_20211224T12001_CO10 CS_OFFL_SR_JOPM_2_20211224T12001_CO10 CS_OFFL_SR_JOPM_2_20211224T13002_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T12301_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T124005_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T124005_CO10 CS_OFFL_SR_JOPM_2_20211224T13004_CO11224T124005_CO10 CS_OFFL_SR_JOPM_2_20211224T14004_C011224T144005_CO10 CS_OFFL_SR_JOPM_2_20211224T14004_C011224T144005_CO10 CS_OFFL_SR_JOPM_2_20211224T14004_C01124T144005_C01124	CS_OFFL_SIR_IOPM_2_20211224T110535_20211224T113138_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COGG Affirmeter Range and Backscatter Quality Flags have been set for one or one records. CS_OFFL_SIR_JOPM_2_20211224T121238_20211224T122390_CO01 CS_OFFL_SIR_JOPM_2_20211224T122439_20211224T122330_CO01 CS_OFFL_SIR_JOPM_2_20211224T122439_20211224T122330_CO01 CS_OFFL_SIR_JOPM_2_20211224T123014_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123014_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123014_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123014_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123014_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T123533_CO01 CS_OFFL_SIR_JOPM_2_20211224T12353_CO01 CS_OFFL_SIR_JOPM_2_20211224T134640_Z0211224T134955_CO01 CS_OFFL_SIR_JOPM_2_20211224T134440_Z0211224T134955_CO01 CS_OFFL_SIR_JOPM_2_20211224T134045_C0011 CS_OFFL_SIR_JOPM_2_20211224T144041_C0011 CS_OFFL_SIR_JOPM_2_20211224T144041_C0011 CCS_OFFL_SIR_JOPM_2_20211224T144041_C0011 CCS_OFFL_SIR_JOPM_2_20211224T144041_C0011 CCS_OFFL_SIR_JOPM_2_20211224T1440424_20211224T144050_C0011 CCS_OFFL_SIR_JOPM_2_20211224T144048_20211224T144050_C0011 CCS_OFFL_SIR_JOPM_2_20211224T144048_20211224T144050_C0011 CCS_OFFL_SIR_JOPM_2_20211224T144084_20211224T144050_C0011 CCS_OFFL_SIR_JOPM_2_20211224T144084_20211224T144050_C0011 CCS_OFFL_SIR_JOPM_2_20211224T144084_202111224T144050_C0011	CS_OFFL_SIR_IOPM_2_20211224T113156_20211224T113916_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCS Altmeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211224T122439_20211224T123833_C001 CS_OFFL_SIR_IOPM_2_20211224T123014_20211224T123833_C001 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T123853_C0011 CS_OFFL_SIR_IOPM_2_20211224T13852_C001 CS_OFFL_SIR_IOPM_2_20211224T13852_C0011 CS_OFFL_SIR_IOPM_2_20211224T13852_C0011 CS_OFFL_SIR_IOPM_2_20211224T13852_C0011 CS_OFFL_SIR_IOPM_2_20211224T13852_C0011 CS_OFFL_SIR_IOPM_2_20211224T13852_C0011 CS_OFFL_SIR_IOPM_2_20211224T13852_C0011 CS_OFFL_SIR_IOPM_2_20211224T13852_C0011 CS_OFFL_SIR_IOPM_2_20211224T13853_C0011 CS_OFFL_SIR_IOPM_2_20211224T13853_C0011 CS_OFFL_SIR_IOPM_2_20211224T13853_C0011 CS_OFFL_SIR_IOPM_2_20211224T13853_C0011 CS_OFFL_SIR_IOPM_2_20211224T13853_C0011 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T140965_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T140965_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T140965_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T140965_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T14453_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T144630_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T144630_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T144630_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T144630_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T144630_C001 CS_OFFL_SIR_IOPM_2_20211224T140041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T1440041_20211224T14	CS_OFFL_SIR_IOPM_2_20211224T115457_20211224T120611_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 CS_OFFL_SIR_IOPM_2_20211224T123014_20211224T123533_C001 CS_OFFL_SIR_IOPM_2_20211224T123553_20211224T123533_C001 CS_OFFL_SIR_IOPM_2_20211224T123553_20211224T123553_C0011 CS_OFFL_SIR_IOPM_2_20211224T123553_20211224T123553_C0011 CS_OFFL_SIR_IOPM_2_20211224T124640_20211224T125911_C0011 CS_OFFL_SIR_IOPM_2_20211224T130125_20211224T130125_20211224T130125_20211224T331842_C001 CS_OFFL_SIR_IOPM_2_20211224T34045_20211224T34045_C0011 CS_OFFL_SIR_IOPM_2_20211224T34045_20211224T34045_C0011 CS_OFFL_SIR_IOPM_2_20211224T34045_20211224T34045_C0011 CS_OFFL_SIR_IOPM_2_20211224T34044_20211224T34045_C0011 CS_OFFL_SIR_IOPM_2_20211224T34094_20211224T34050_C0011 CS_OFFL_SIR_IOPM_2_20211224T34094_20211224T34050_C0011 CS_OFFL_SIR_IOPM_2_20211224T34094_20211224T34050_C0011 CS_OFFL_SIR_IOPM_2_20211224T34094_20211224T34050_C0011 CS_OFFL_SIR_IOPM_2_20211224T34094_20211224T34050_C0011 CS_OFFL_SIR_IOPM_2_20211224T34094_20211224T34050_C0011 CS_OFFL_SIR_IOPM_2_20211224T34094_20211224T34050_C0011 CS_OFFL_SIR_IOPM_2_2021324T344094_2021324T3450_C001 CS_OFFL_SIR_IOPM_2_2021324T344094_2021324T34450_C001 CS_OFFL_SIR_IOPM_2_2021324T344094_2021324T34450_C001 CS_OFFL_SIR_IOPM_2_2021324T344094_2021324T3450_C001 CS_OFFL_SIR_IOPM_2_2021324T344094_2021324T3450_C001 CS_OFFL_SIR_IOPM_2_20213	CS_OFFL_SIR_IOPM_2_20211224T121238_20211224T122330_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20211224T123553_20211224T123756_C001 DCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20211224T123553_20211224T125911_C001 DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DCOG Altimeter Rang	CS_OFFL_SIR_IOPM_2_20211224T122439_20211224T122812_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality GS_OFFL_SIR_IOPM_2_20211224T124640_20211224T125911_C001 CS_OFFL_SIR_IOPM_2_20211224T124640_20211224T131842_C001 CS_OFFL_SIR_IOPM_2_20211224T130125_20211224T131842_C001 CS_OFFL_SIR_IOPM_2_20211224T130125_20211224T131842_C001 CS_OFFL_SIR_IOPM_2_20211224T134045_20211224T134985_C001 CS_OFFL_SIR_IOPM_2_20211224T134045_20211224T134985_C001 CS_OFFL_SIR_IOPM_2_20211224T135251_20211224T140704_C001 CS_OFFL_SIR_IOPM_2_20211224T135251_20211224T140704_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T141436_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T141436_C001 CS_OFFL_SIR_IOPM_2_20211224T14238_20211224T144231_C001 CS_OFFL_SIR_IOPM_2_20211224T14238_20211224T144453_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144453_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144485_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144485_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144288_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_20211224T144858_D0211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_D0211224T145516_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_D0211224T145516_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_D0211224T145516_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_D0211224T145516_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_D0211224T145516_C001 CS_OFFL_SIR_IOPM_2_20211224T144858_D0211224T145516_C001 CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20211224T123014_20211224T123533_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range and Backscatter Quality Flags have been attended to the properties of th	CS_OFFL_SIR_IOPM_2_20211224T123553_20211224T123756_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T141436_C001 CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144286_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144288_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144288_20211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144988_20211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144988_20211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144988_20211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144988_20211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144988_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T	CS_OFFL_SIR_IOPM_2_20211224T124640_20211224T125911_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_20211224T140704_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T141436_C001 CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T141436_C001 CS_OFFL_SIR_IOPM_2_20211224T14236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T14236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T14236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T14249_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T14249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T14428_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T14428_20211224T144504_C001 CS_OFFL_SIR_IOPM_2_20211224T14428_20211224T144504_C001 CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144506_C001 CS_OFFL_SIR_IOPM_2_20211224T144628_20211224T144506_C001 CS_OFFL_SIR_IOPM_2_20211224T144628_20211224T14506_C001 CS_OFFL_SIR_IOPM_2_20211224T14	CS_OFFL_SIR_IOPM_2_20211224T130125_20211224T131842_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_20211224T140941_20211224T141436_C001 CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144282_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144282_20211224T144504_C001 CS_OFFL_SIR_IOPM_2_20211224T144282_20211224T144504_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T144504_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T144504_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T14501	CS_OFFL_SIR_IOPM_2_20211224T134045_20211224T134955_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T151639_C001 CS_OFFL_SIR_IOPM_2_20211224T151530_20211224T151639_C001 CS_OFFL_SIR_IOPM_2_20211224T1	CS_OFFL_SIR_IOPM_2_20211224T135251_20211224T140704_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001 CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T1445016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T155530_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155629_C001 CS_OFFL_SIR_IOPM_2_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T155630_20211224T15563	CS_OFFL_SIR_IOPM_2_20211224T140941_20211224T141436_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T145016_C001 CS_OFFL_SIR_IOPM_2_20211224T151530_20211224T151629_C001	CS_OFFL_SIR_IOPM_2_20211224T142236_20211224T142431_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20211224T144249_20211224T144503_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001 and Backscatter Quality, OCOG 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_20211224T151530_20211224T151629_C001 CS_OFFL_SIR_IOPM_2_20211224T151530_20211224T151629_C001 CS_OFFL_SIR_IOPM_2_20211224T151530_20211224T151629_C001	CS_OFFL_SIR_IOPM_2_20211224T144626_20211224T144852_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20211224T144928_20211224T145016_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20211224T151530_20211224T151629_C001		

CS_OFFL_SIR_IOPM_2_20211224T153000_20211224T154614_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_20211224T154933_20211224T155403_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_20211224T160037_20211224T163500_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_20211224T170019_20211224T172541_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_20211224T172758_20211224T173305_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_20211224T173324_20211224T173649_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_20211224T174023_20211224T180725_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_20211224T180851_20211224T181159_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_20211224T183541_20211224T183750_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_20211224T183753_20211224T190430_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_20211224T190744_20211224T191220_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_20211224T191223_20211224T191556_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_20211224T192041_20211224T195337_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_20211224T200628_20211224T200837_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_20211224T203731_20211224T204247_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_20211224T204726_20211224T205246_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_20211224T205921_20211224T212058_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_20211224T212344_20211224T213326_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_20211224T214455_20211224T214913_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_20211224T220504_20211224T220950_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_20211224T221138_20211224T222202_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_20211224T222806_20211224T223147_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_20211224T223836_20211224T224350_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_20211224T224359_20211224T225131_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_20211224T225201_20211224T231047_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_20211224T231356_20211224T231413_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_20211224T231417_20211224T231433_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_20211224T232816_20211224T235926_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_20211224T015447_20211224T015658_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_20211224T033133_20211224T033358_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_20211224T042425_20211224T042646_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_20211224T051130_20211224T051557_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_20211224T055351_20211224T055530_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_20211224T155403_20211224T155409_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_20211224T173306_20211224T173308_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_20211224T173318_20211224T173324_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_20211224T181159_20211224T181746_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_20211224T195337_20211224T195510_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_20211224T203459_20211224T203503_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_20211224T023345_20211224T023406_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_20211224T050249_20211224T050511_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_20211224T095653_20211224T100127_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_20211224T113933_20211224T113953_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_20211224T165533_20211224T165603_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_20211224T195720_20211224T200341_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_20211224T204247_20211224T204600_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.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors: 100

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20211224T000648_20211224T000742_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_20211224T001313_20211224T001738_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_20211224T010127_20211224T010245_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_20211224T013515_20211224T013824_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_20211224T015447_20211224T015658_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_20211224T021434_20211224T022037_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_20211224T022108_20211224T022555_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_20211224T022901_20211224T023036_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_20211224T023406_20211224T023743_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_20211224T024532_20211224T024719_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_20211224T031211_20211224T031549_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_20211224T033133_20211224T033358_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_20211224T033406_20211224T033613_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_20211224T033651_20211224T033716_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_20211224T041416_20211224T041606_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_20211224T045240_20211224T045616_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_20211224T050239_20211224T050249_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_20211224T050627_20211224T050659_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_20211224T051130_20211224T051557_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_20211224T051638_20211224T051800_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_20211224T065338_20211224T065821_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_20211224T082422_20211224T082453_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_20211224T083240_20211224T083414_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_20211224T092146_20211224T092311_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_20211224T094333_20211224T094645_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_20211224T100406_20211224T100512_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_20211224T113953_20211224T114117_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_20211224T123756_20211224T123944_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_20211224T132048_20211224T132345_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_20211224T133654_20211224T134045_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_20211224T141626_20211224T142236_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_20211224T145339_20211224T145501_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_20211224T145813_20211224T150230_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_20211224T151902_20211224T152046_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_20211224T154703_20211224T154933_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_20211224T163704_20211224T164053_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_20211224T165638_20211224T170019_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_20211224T181159_20211224T181746_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_20211224T182527_20211224T182540_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_20211224T182651_20211224T182735_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_20211224T190620_20211224T190744_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_20211224T191556_20211224T191712_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_20211224T195337_20211224T195510_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_20211224T200914_20211224T201036_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_20211224T201449_20211224T201513_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_20211224T204600_20211224T204726_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_20211224T220136_20211224T220504_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_20211224T222544_20211224T222805_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_20211224T232304_20211224T232325_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_20211224T000019_20211224T000057_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_20211224T000742_20211224T001203_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_20211224T001203_20211224T001313_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_20211224T003633_20211224T003733_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_20211224T005107_20211224T005652_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_20211224T012350_20211224T012552_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

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CS_OFFL_SIR_IOPR_2_20211224T014859_20211224T015213_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_20211224T015955_20211224T020103_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_20211224T030256_20211224T030456_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_20211224T030456_20211224T031103_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_20211224T032521_20211224T033133_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_20211224T033613_20211224T033651_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_20211224T033717_20211224T033931_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_20211224T050236_20211224T050238_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_20211224T050249_20211224T050511_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_20211224T050659_20211224T051130_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_20211224T064110_20211224T064226_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_20211224T064417_20211224T065337_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_20211224T073022_20211224T073350_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_20211224T081737_20211224T082112_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_20211224T082453_20211224T083240_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_20211224T083414_20211224T083459_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_20211224T095522_20211224T095653_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_20211224T095653_20211224T100127_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_20211224T100512_20211224T101256_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_20211224T114430_20211224T115152_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_20211224T115417_20211224T115456_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_20211224T125911_20211224T130125_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_20211224T132345_20211224T133057_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_20211224T135015_20211224T135217_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_20211224T150230_20211224T150925_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_20211224T155912_20211224T160037_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_20211224T164053_20211224T164930_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_20211224T181746_20211224T182527_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_20211224T182735_20211224T182816_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_20211224T191712_20211224T192041_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_20211224T195510_20211224T195545_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_20211224T195720_20211224T200341_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_20211224T200341_20211224T200628_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_20211224T203532_20211224T203731_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_20211224T205555_20211224T205921_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_20211224T213327_20211224T213547_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_20211224T213551_20211224T214241_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_20211224T214241_20211224T214417_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_20211224T222202_20211224T222544_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_20211224T231107_20211224T231110_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_20211224T231508_20211224T231643_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_20211224T231649_20211224T232140_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_20211224T232140_20211224T232304_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_20211224T232325_20211224T232448_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_20211224T232455_20211224T232722_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 & 1Hz PLRM)

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

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

Number of products with errors: 205

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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 (20Hz, 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:

16

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

0

6.2 P2P Product Header Analysis

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

Number of products with errors:

0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors: 30

Product	Description			
CS_OFFL_SIR_IOP_220211223T232152_20211224T001130_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_220211224T001130_20211224T010107_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_220211224T010107_20211224T015045_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_220211224T015045_20211224T024021_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_220211224T024021_20211224T033000_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_220211224T033000_20211224T041936_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_220211224T041936_20211224T050915_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_220211224T050915_20211224T055851_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_220211224T055851_20211224T064829_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_220211224T064829_20211224T073806_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_220211224T073806_20211224T082744_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_220211224T082744_20211224T091720_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_220211224T091720_20211224T100659_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_220211224T100659_20211224T105635_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_220211224T105635_20211224T114613_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_220211224T114613_20211224T123549_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_220211224T123549_20211224T132528_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_220211224T132528_20211224T141504_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_220211224T141504_20211224T150443_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_220211224T150443_20211224T155419_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_220211224T155419_20211224T164357_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_220211224T164357_20211224T173334_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_20211224T173334_20211224T182312_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_20211224T182312_20211224T191249_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_20211224T191249_20211224T200227_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_20211224T200227_20211224T205203_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_220211224T205203_20211224T214142_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_20211224T214142_20211224T223118_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_220211224T223118_20211224T232056_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_20211224T232056_20211225T001032_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.

Number of products with errors:

 Product
 Test Failed
 Description

 CS_OFFL_SIR_IOP_2_20211224T200227_20211224T205203_C001
 Power scaling error
 There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 30

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 3

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 3

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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: 27

P2P Retracking Flags PLRM

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

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 30

7. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	199	199	3	196	0
SIR_IOPR1B	135	112	5	107	0
SIR_IOPN1B	112	135	0	135	0
SIR_IOPM_2	199	199	149	50	0
SIR_IOPR_2	135	112	43	69	0
SIR_IOPN_2	112	135	38	97	0
SIR_IOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC reports with warnings

2328

Total number of occurrences of each warning

	Total Hamber of occurrences of cach warning						
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOPM1B	196	0	0	0	0	0	0
SIR_IOPM_2	0	34	32	0	37	0	30
SIR_IOPN1B	107	0	0	0	0	0	0
SIR_IOPN_2	0	15	39	1	30	31	23

SIR_IOPR1B	131	0	0	0	0	0	0
SIR_IOPR_2	0	41	56	1	25	22	7
Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	26	0	0	0	0	19
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	1	0	0	25	0	37	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	3	n	58	0	68	n	n

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	0	4	22	0	2	27
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	32	20	48	62	41	30
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	57	0	3	76	39	8	46

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPM1B	0	0	0	0	0	0	
SIR_IOPM_2	0	3	0	0	0	0	
SIR_IOPN1B	0	0	0	0	51	2	
SIR_IOPN_2	28	13	0	1	0	0	
SIR_IOPR1B	0	0	0	0	135	15	
SIR_IOPR_2	55	2	1	6	0	0	

	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
ı	SIR IOP 2	14	28	29	2	29	18	27

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	2	18	29	26	15	29	19

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_IOP_2_	27	29	19	15	29		

Fest Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD	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	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_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter				

7.3 Missing QCC Reports