

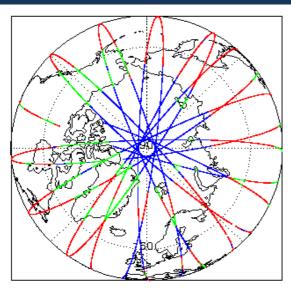
1. Overview

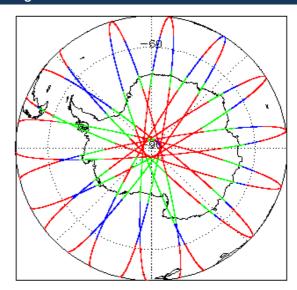
Report Production:	30-Aug-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

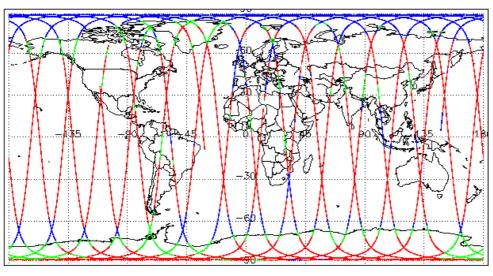
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

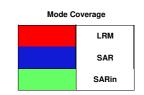
Mission / In	Mission / Instrument News		
23-Aug-202	2 None		
24-Aug-202	2 None		
25-Aug-202	2 Nothing planned		

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

Number of products with errors:

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4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

6

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220824T053259_20220824T053950_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220824T070723_20220824T071432_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220824T141249_20220824T141315_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220824T150142_20220824T150246_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220824T164648_20220824T165123_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more record
CS_OFFL_SIR_IOPM1B_20220824T170829_20220824T171214_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more record

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220824T003333_20220824T004718_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220824T014230_20220824T015816_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220824T021135_20220824T023219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220824T080237_20220824T083440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220824T131624_20220824T132546_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220824T182908_20220824T183556_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T020225_20220824T020440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T120345_20220824T120714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T120717_20220824T120806_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T134241_20220824T134354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T134527_20220824T134752_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T184404_20220824T184905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T201430_20220824T201524_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220824T233345_20220824T233500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220824T083814_20220824T084438_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220824T101618_20220824T102541_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220824T102807_20220824T103821_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220824T165730_20220824T170151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220824T200842_20220824T201141_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220824T214555_20220824T214716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220824T223851_20220824T224104_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

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5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

lumber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220824T053116_20220824T053247_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPM_2_20220824T165251_20220824T165317_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T002427_20220824T002525_C001	Mean Sea Surface (1), Mean 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_20220824T011839_20220824T012051_C001	Mean Sea Surface (1), Mean 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_20220824T020225_20220824T020440_C001	Mean Sea Surface (1), Mean 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_20220824T024858_20220824T025045_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T025729_20220824T030351_C001	Mean Sea Surface (1), Mean 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_20220824T033909_20220824T034305_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T043835_20220824T044032_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T083440_20220824T083658_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T092710_20220824T092836_C001	Mean Sea Surface (1), Mean 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_20220824T093347_20220824T093652_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20220824T110742_20220824T111021_C001	Mean Sea Surface (1), Mean 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_20220824T111250_20220824T111812_C001	Mean Sea Surface (1), Mean 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_20220824T120345_20220824T120714_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20220824T120717_20220824T120806_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20220824T124726_20220824T125002_C001	Mean Sea Surface (1), Mean 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_20220824T134241_20220824T134354_C001	Mean Sea Surface (1), Mean 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_20220824T142429_20220824T142652_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T152445_20220824T152628_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T165701_20220824T165730_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T174424_20220824T174603_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T210349_20220824T210707_C001	Mean Sea Surface (1), Mean 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_20220824T211219_20220824T211345_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T214446_20220824T214509_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220824T215439_20220824T215538_C001	Mean Sea Surface (1), Mean 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_20220824T225127_20220824T225234_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_IOPN_2_20220824T233345_20220824T233500_C001	Mean Sea Surface (1), Mean 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_20220824T002525_20220824T003107_C001	Mean Sea Surface (1), Mean 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_20220824T020440_20220824T021135_C001	Mean Sea Surface (1), Mean 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_20220824T034305_20220824T034827_C001	Mean Sea Surface (1), Mean 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_20220824T052127_20220824T052840_C001	Mean Sea Surface (1), Mean 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_20220824T065850_20220824T070626_C001	Mean Sea Surface (1), Mean 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_20220824T071655_20220824T071747_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220824T083814_20220824T084438_C001	Mean Sea Surface (1), Mean 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_20220824T084438_20220824T084629_C001	Mean Sea Surface (1), Mean 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_20220824T101618_20220824T102541_C001	Mean Sea Surface (1), Mean 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_20220824T115811_20220824T120345_C001	Mean Sea Surface (1), Mean 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_20220824T133559_20220824T134241_C001	Mean Sea Surface (1), Mean 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_20220824T151550_20220824T152203_C001	Mean Sea Surface (1), Mean 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_20220824T165317_20220824T165543_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220824T165730_20220824T170151_C001	Mean Sea Surface (1), Mean 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_20220824T183556_20220824T184404_C001	Mean Sea Surface (1), Mean 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_20220824T201524_20220824T202311_C001	Mean Sea Surface (1), Mean 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_20220824T215538_20220824T220345_C001	Mean Sea Surface (1), Mean 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_20220824T233500_20220824T234220_C001	Mean Sea 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_20220824T053259_20220824T053950_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220824T070723_20220824T071432_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220824T141249_20220824T141315_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220824T150142_20220824T150246_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220824T164648_20220824T165123_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

88

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220823T234834_20220824T001937_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220824T003333_20220824T004718_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_20220824T004721_20220824T010854_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

	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20220824T011127_20220824T011633_C001	Backscatter Quality	for one or more records
CS_OFFL_SIR_IOPM_2_20220824T011711_20220824T011839_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_20220824T012612_20220824T013611_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_20220824T014230_20220824T015816_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_20220824T021135_20220824T023219_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_20220824T023358_20220824T024731_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_20220824T025045_20220824T025545_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_20220824T025626_20220824T025729_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_20220824T030355_20220824T032322_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_20220824T032329_20220824T032609_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_20220824T032731_20220824T033821_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_20220824T040502_20220824T042551_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_20220824T043126_20220824T043503_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_20220824T044222_20220824T051006_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_20220824T054112_20220824T060544_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_20220824T060909_20220824T061418_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_20220824T061425_20220824T061752_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_20220824T062149_20220824T065506_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_20220824T070723_20220824T071432_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_20220824T071749_20220824T072527_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_20220824T074059_20220824T074509_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_20220824T074910_20220824T075452_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_20220824T080237_20220824T083440_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_20220824T083658_20220824T083713_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_20220824T084629_20220824T084640_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_20220824T084703_20220824T084841_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

DO OFFL SIR IDM1 2 2020004100000 2020004100000 20200041100000 20200041100000 20200044110000 20200044110000 20200044110000 202000441100000 202000441100000 20	CS_OFFL_SIR_IOPM_2_20220824T090722_20220824T092301_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
Description	CS_OFFL_SIR_IOPM_2_20220824T092836_20220824T093347_C001	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
SQ GPTL_SR_QPM_2_2000804T16831_200064T16932_0001	CS_OFFL_SIR_IOPM_2_20220824T094049_20220824T101618_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col.	CS_OFFL_SIR_IOPM_2_20220824T102541_20220824T102807_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_CPFL_SR_JOPM_2_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T11002_2022864T1002_2022864T1002_2000_2000_2000_2000_2000_2000_2000	CS_OFFL_SIR_IOPM_2_20220824T103821_20220824T104259_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
the Assessment Cuality CS OFFL SIR JOPM 2 2022824T112002 2022824T112003 CONTROL FROM THE PROPERTY OF THE PROP	CS_OFFL_SIR_IOPM_2_20220824T104338_20220824T110132_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T12519_COOI SQ. OFFL. SIRI_OPM_2_20220824T12606_20220824T12519_COOI SQ. OFFL. SIRI_OPM_2_20220824T12606_20220824T12519_COOI SQ. OFFL. SIRI_OPM_2_20220824T12606_20220824T12519_COOI SQ. OFFL. SIRI_OPM_2_20220824T12606_20220824T12519_COOI SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T12519_COOI SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T12506_COOR SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T12506_COOR SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T12506_COOR SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T12506_COOR SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T132546_COOI SQ. OFFL. SIRI_OPM_2_20220824T12506_20220824T132546_COOI SQ. OFFL. SIRI_OPM_2_20220824T13506_20220824T132546_COOI SQ. OFFL. SIRI_OPM_2_20220824T13506_20220824T13506_COOI SQ. OFFL. SIRI_OPM_2_20220824T13506	CS_OFFL_SIR_IOPM_2_20220824T111039_20220824T111250_C001	0 ,,	
and Backscatter Caulity, COCO Almeter Range and Backscatter Caulity Flags have been strong and Backscatter Caulity Coco Almeter Range Caulity, COCO Almeter Range and Backscatter Caulity Flags have been set to cono or more secords CS_OFFL_SIR_IOPM_2_202208641125026_202208241125782_COO1 CS_OFFL_SIR_IOPM_2_202208641125026_202208241125782_COO1 CS_OFFL_SIR_IOPM_2_202208641131604_202208241125046_COO1 CS_OFFL_SIR_IOPM_2_202208641131604_202208241125046_COO1 CS_OFFL_SIR_IOPM_2_202208641131604_202208241125046_COO1 CS_OFFL_SIR_IOPM_2_202208641131604_202208241142060_COO1 CS_OFFL_SIR_IOPM_2_202208641142019_202208241142060_COO1 CS_OFFL_SIR_IOPM_2_202208641142019_COCO841142060_COO1 CS_OFFL_SIR_IOPM_2_202208641142019_COCO841142060_COO1 CS_OFFL_SIR_IOPM_2_202208641142019_COCO841142060_COO1 CS_OFFL_SIR_IOPM_2_202208641142019_COCO841142060_COO1 CS_OFFL_SIR_IOPM_2_202208641142000_COCO841142000_COCO841144200_COCO641144200_COCO841144200_COCO641144200_COCO641144200_COCO641144200_COCO641144200_COCO641144200_COCO641144200_COCO641144200_COCO641144200_COCO641144200_COCO641144200_COCO6411	CS_OFFL_SIR_IOPM_2_20220824T112032_20220824T115626_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Alterioter Range and Backscatter Quality Fliga have been set to row or more records. CS_OFFL_SIR_IOPM_2_20220824T125002_20220824T125159_C001 CS_OFFL_SIR_IOPM_2_20220824T125202_20220824T125159_C001 CS_OFFL_SIR_IOPM_2_20220824T125202_20220824T125122_C001 CS_OFFL_SIR_IOPM_2_20220824T125202_20220824T125202_20220824T131422_C001 CS_OFFL_SIR_IOPM_2_20220824T125202_20220824T131422_C001 CS_OFFL_SIR_IOPM_2_20220824T131524_20220824T131524_C001 CS_OFFL_SIR_IOPM_2_20220824T131524_20220824T131524_C001 CS_OFFL_SIR_IOPM_2_20220824T131524_20220824T13222_C001 CS_OFFL_SIR_IOPM_2_20220824T131524_20220824T13222_C001 CS_OFFL_SIR_IOPM_2_20220824T131524_20220824T13222_C001 CS_OFFL_SIR_IOPM_2_20220824T131524_20220824T13222_C001 CS_OFFL_SIR_IOPM_2_20220824T131524_20220824T13222_C001 CS_OFFL_SIR_IOPM_2_20220824T13222_C001 CS_OFFL_SIR_IOPM_2_20220824T14219_20220824T14222_C001 CS_OFFL_SIR_IOPM_2_20220824T14219_20220824T14222_C001 CS_OFFL_SIR_IOPM_2_20220824T14219_20220824T14222_C001 CS_OFFL_SIR_IOPM_2_20220824T14219_20220824T14222_C001 CS_OFFL_SIR_IOPM_2_20220824T14219_20220824T14220_C001 CS_OFFL_SIR_IOPM_2_20220824T14219_20220824T143506_C001 CS_OFFL_SIR_IOPM_2_20220824T143501_20220824T143506_C001 CS_OFFL_SIR_IOPM_2_20220824T143501_20220824T143506_C001 CS_OFFL_SIR_IOPM_2_20220824T143501_20220824T143505_C001 CS_OFFL_SIR_IOPM_2_20220824T163722_2020824T163734_C001 CS_OFFL_SIR_IOPM_2_20220824T163732_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163732_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163732_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163732_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_20200424T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001 CS_OFFL_SIR_IOPM_2_20220824T163505_C001	CS_OFFL_SIR_IOPM_2_20220824T120806_20220824T122719_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20208241125325_202208241131422_C001 CS_OFFL_SIR_IOPM_2_20208241125325_202208241131422_C001 All matter Range SPIA_SWH and Backscatter Quality Flags have been set to concern an advantage of the COGO Allimeter Range and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter Quality Flags have been set to concern and Backscatter	CS_OFFL_SIR_IOPM_2_20220824T122804_20220824T124125_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality GS_OFFL_SIR_IOPM_2_20220824T13928_20220824T131422_ODI CS_OFFL_SIR_IOPM_2_20220824T13824_20220824T138246_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13826_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13826_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13826_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13826_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13826_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13826_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13826_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13828_CDI CS_OFFL_SIR_IOPM_2_20220824T13821_20220824T13828_CDI CS_OFFL_SIR_IOPM_2_20220824T13823_20220824T13828_CDI CS_OFFL_SIR_IOPM_2_20220824T13823_20220824T13828_CDI CS_OFFL_SIR_IOPM_2_20220824T15323_20220824T15383_CDI CS_OFFL_SIR_IOPM_2_20220824T15323_20220824T15383_CDI CS_OFFL_SIR_IOPM_2_20220824T15383_20220824T15885_CDII CS_OFFL_SIR_IOPM_2_20220824T15383_20220824T15885_CDII CS_OFFL_SIR_IOPM_2_20220824T15383_20220824T15885_CDII CS_OFFL_SIR_IOPM_2_20220824T15883_20220824T15885_CDII CS_OFFL_SIR_IOPM_2_20220824T15883_20220824T15885_CDII CS_OFFL_SIR_IOPM_2_20220824T15883_20220824T15885_CDII CS_OFFL_SIR_IOPM_2_20220824T15884_20220824T15885_CDII CS_OFFL_SIR_IOPM_2_20220824T15884_CDIIII_SIR_IOPM_2_20220824T15884_CDIII_SIR_IOPM_2_20220824T15884_CDIII_SIR_IOPM_2_20220824T15884_CDIII_SIR_IOPM_2_20220824T15884_CDIII_SIR_IOPM_2_20220824T15884_CDIII_SIR_IOPM_2_20220824T15	CS_OFFL_SIR_IOPM_2_20220824T125002_20220824T125159_C001		
and Backscatter Quality COGS Allimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T13624_20220824T140506_C001 Allimeter Range and Backscatter Quality CoGS Allimeter Range and Backscatter Quality Flags and the COGS Allimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T134752_20220824T140506_C001 CS_OFFL_SIR_IOPM_2_20220824T144752_20220824T140506_C001 CS_OFFL_SIR_IOPM_2_20220824T144752_20220824T143604_C001 CS_OFFL_SIR_IOPM_2_20220824T143131_20220824T143604_C001 CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T143064_C001 CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153355_C001 CS_OFFL_SIR_IOPM_2_20220824T153323_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T153332_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T153332_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T153332_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160838_20220824T160854_C001 COGG Allimeter Range and Backscatt	CS_OFFL_SIR_IOPM_2_20220824T125325_20220824T125702_C001		
and Backscatter Quality Flags have been although Flags have been althou	CS_OFFL_SIR_IOPM_2_20220824T125928_20220824T131422_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 Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T142119_20220824T142229_C001 CS_OFFL_SIR_IOPM_2_20220824T142119_20220824T14229_C001 CS_OFFL_SIR_IOPM_2_20220824T143131_20220824T143604_C001 CS_OFFL_SIR_IOPM_2_20220824T143131_20220824T143604_C001 CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T143604_C001 CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T145326_C001 CS_OFFL_SIR_IOPM_2_20220824T152733_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152733_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152734_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T152734_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T152734_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153132_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153133_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T153133_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T160538_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T160538_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T160538_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T160538_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T160538_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T160538_20220824T160556_C001 CS_OFFL_SIR_IOPM_2_20220824T160534_20020824T160556_C001 CS_OFFL_SIR_IOPM_2_20	CS_OFFL_SIR_IOPM_2_20220824T131624_20220824T132546_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T143131_20220824T143604_C001 CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T145326_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153300_C001 CS_OFFL_SIR_IOPM_2_20220824T153338_20220824T153838_C001 CS_OFFL_SIR_IOPM_2_20220824T153388_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T153388_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160382_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T160350_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T160350_C001 CS_OFFL_SIR_IOPM_2_20220824T160390_20220824T160350_C001 CS_OFFL_SIR_IOPM_2_20220824T160350_2020824T160350_C001 CS_OFFL_SIR_IOPM_2_20220824T160350_20208	CS_OFFL_SIR_IOPM_2_20220824T134752_20220824T140506_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T145326_C001 CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T145326_C001 CS_OFFL_SIR_IOPM_2_20220824T152723_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152723_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152723_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152724_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T152742_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153835_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153835_C001 CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160654_C001 CCG_Altimeter Range_Quality, CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range_Altimeter Range Quality, CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range_Altimeter Range_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range_Altimeter Range_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCC	CS_OFFL_SIR_IOPM_2_20220824T142119_20220824T142229_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T152734_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T152723_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T152734_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T152732_20220824T153000_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153835_C001 CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160838_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160838_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T160854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T164854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T164854_20220824T164329	CS_OFFL_SIR_IOPM_2_20220824T143131_20220824T143604_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been Set for one or more records The Ocean 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 The Ocean 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_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20220824T143901_20220824T145326_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_20220824T153123_20220824T153835_C001 CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153835_C001 CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160854_C001 CCGA Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20220824T160854_C001 CCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20220824T152723_20220824T152734_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_O	CS_OFFL_SIR_IOPM_2_20220824T152742_20220824T153000_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001 CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001 CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001	CS_OFFL_SIR_IOPM_2_20220824T153123_20220824T153835_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20220824T160936_20220824T161501_C001 Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20220824T153838_20220824T160256_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscat	CS_OFFL_SIR_IOPM_2_20220824T160638_20220824T160854_C001		
CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set occurred to the ocogon of the ocogon of the ocogon Altimeter Range and Backscatter Quality Flags have been set occurred to the ocogon of the ocogon of the ocogon of the ocogon occurred to the ocogon occurre	CS_OFFL_SIR_IOPM_2_20220824T160900_20220824T161501_C001		
	CS_OFFL_SIR_IOPM_2_20220824T161854_20220824T164329_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20220824T170829_20220824T171214_C001		

CS_OFFL_SIR_IOPM_2_20220824T171428_20220824T174204_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_20220824T174850_20220824T175305_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_20220824T175805_20220824T182227_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_20220824T182416_20220824T182609_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_20220824T182908_20220824T183556_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_20220824T184905_20220824T191935_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_20220824T192802_20220824T193343_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_20220824T193715_20220824T194125_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_20220824T201242_20220824T201430_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_20220824T202710_20220824T205958_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_20220824T210707_20220824T211219_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_20220824T211755_20220824T213355_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_20220824T220345_20220824T223851_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_20220824T224455_20220824T224707_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_20220824T224714_20220824T225127_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_20220824T225632_20220824T232215_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_20220824T232218_20220824T232943_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_20220824T233214_20220824T233345_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_20220824T234220_20220824T234759_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_20220824T234820_20220824T235643_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_20220824T013611_20220824T013717_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_20220824T084841_20220824T084938_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_20220824T125702_20220824T125839_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_20220824T160446_20220824T160638_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_20220824T202311_20220824T202440_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_20220824T211219_20220824T211345_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_20220824T214446_20220824T214509_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_20220824T011633_20220824T011640_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_20220824T034305_20220824T034827_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220824T111812_20220824T112032_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220824T115811_20220824T120345_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220824T200842_20220824T201141_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_20220824T234759_20220824T234820_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

90

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20220824T010945_20220824T011127_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_20220824T015816_20220824T020117_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_20220824T024858_20220824T025045_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_20220824T025729_20220824T030351_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_20220824T033909_20220824T034305_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_20220824T042853_20220824T043126_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_20220824T060735_20220824T060909_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_20220824T061752_20220824T061922_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_20220824T065718_20220824T065850_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_20220824T074750_20220824T074910_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_20220824T075452_20220824T075529_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_20220824T075654_20220824T075808_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_20220824T093347_20220824T093652_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_20220824T104259_20220824T104338_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_20220824T111250_20220824T111812_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_20220824T120345_20220824T120714_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_20220824T134527_20220824T134752_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_20220824T140506_20220824T141031_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_20220824T142429_20220824T142652_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_20220824T143604_20220824T143750_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_20220824T160446_20220824T160638_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_20220824T165123_20220824T165245_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_20220824T170707_20220824T170829_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_20220824T171215_20220824T171428_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_20220824T174424_20220824T174603_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_20220824T174722_20220824T174850_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_20220824T175305_20220824T175600_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_20220824T184404_20220824T184905_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_20220824T192420_20220824T192802_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_20220824T193343_20220824T193458_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_20220824T195038_20220824T195412_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_20220824T200239_20220824T200442_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_20220824T202518_20220824T202710_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_20220824T210349_20220824T210707_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_20220824T211219_20220824T211345_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_20220824T214446_20220824T214509_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_20220824T215439_20220824T215538_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_20220824T224104_20220824T224455_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_20220824T225127_20220824T225234_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_20220824T233345_20220824T233500_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_20220824T002525_20220824T003107_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_20220824T010854_20220824T010945_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_20220824T012051_20220824T012547_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_20220824T014017_20220824T014230_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_20220824T020440_20220824T021135_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_20220824T024731_20220824T024858_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_20220824T034305_20220824T034827_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_20220824T042551_20220824T042853_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_20220824T044032_20220824T044222_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_20220824T052127_20220824T052840_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_20220824T052840_20220824T053116_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_20220824T060545_20220824T060735_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_20220824T061922_20220824T062149_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_20220824T065850_20220824T070626_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_20220824T071655_20220824T071747_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_20220824T074509_20220824T074750_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_20220824T075808_20220824T080237_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_20220824T083814_20220824T084438_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_20220824T084951_20220824T085320_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_20220824T092301_20220824T092710_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_20220824T101618_20220824T102541_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_20220824T110132_20220824T110742_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_20220824T111812_20220824T112032_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_20220824T115626_20220824T115716_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_20220824T115811_20220824T120345_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_20220824T122719_20220824T122804_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_20220824T124125_20220824T124726_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_20220824T133559_20220824T134241_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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CS_OFFL_SIR_IOPR_2_20220824T143750_20220824T143901_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_20220824T145326_20220824T150142_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_20220824T151550_20220824T152203_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_20220824T160257_20220824T160446_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_20220824T165730_20220824T170151_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_20220824T174204_20220824T174424_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_20220824T175600_20220824T175805_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_20220824T183556_20220824T184404_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_20220824T191935_20220824T192420_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_20220824T193458_20220824T193715_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_20220824T200842_20220824T201141_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_20220824T201524_20220824T202311_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_20220824T202440_20220824T202518_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_20220824T205958_20220824T210349_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_20220824T211345_20220824T211755_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_20220824T214555_20220824T214716_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_20220824T214716_20220824T215156_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_20220824T215538_20220824T220345_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_20220824T223851_20220824T224104_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_20220824T225234_20220824T225632_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_20220824T233500_20220824T234220_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_20220824T234759_20220824T234820_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

175

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

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

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

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

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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_IOP_2_20220823T233734_20220824T002710_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220824T002710_20220824T011649_C001	Mean Sea Surface (1), Mean 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_20220824T011649_20220824T020624_C001	Mean Sea Surface (1), Mean 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_20220824T020624_20220824T025603_C001	Mean Sea Surface (1), Mean 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_20220824T025603_20220824T034539_C001	Mean Sea Surface (1), Mean 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_20220824T034539_20220824T043518_C001	Mean Sea Surface (1), Mean 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_20220824T043518_20220824T052454_C001	Mean Sea Surface (1), Mean 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_20220824T052454_20220824T061433_C001	Mean Sea Surface (1), Mean 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_20220824T070409_20220824T075348_C001	Mean Sea Surface (1), Mean 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_20220824T075348_20220824T084323_C001	Mean Sea Surface (1), Mean 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_20220824T084323_20220824T093302_C001	Mean Sea Surface (1), Mean 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_20220824T093302_20220824T102238_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20220824T102238_20220824T111217_C001	Mean Sea Surface (1), Mean 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_20220824T111217_20220824T120153_C001	Mean Sea Surface (1), Mean 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_20220824T125132_20220824T134107_C001	Mean Sea Surface (1), Mean 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_20220824T134107_20220824T143046_C001	Mean Sea Surface (1), Mean 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_20220824T143046_20220824T152022_C001	Mean Sea Surface (1), Mean 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_220220824T152022_20220824T161001_C001	Mean Sea Surface (1), Mean 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_20220824T161001_20220824T165937_C001	Mean Sea Surface (1), Mean 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_20220824T165937_20220824T174916_C001	Mean Sea Surface (1), Mean 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_20220824T174916_20220824T183852_C001	Mean Sea Surface (1), Mean 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_20220824T183852_20220824T192831_C001	Mean Sea Surface (1), Mean 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_20220824T192831_20220824T201806_C001	Mean Sea Surface (1), Mean 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_20220824T201806_20220824T210745_C001	Mean Sea Surface (1), Mean 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_20220824T210745_20220824T215721_C001	Mean Sea Surface (1), Mean 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_20220824T215721_20220824T224700_C001	Mean Sea Surface (1), Mean 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_220220824T224700_20220824T233636_C001	Mean Sea Surface (1), Mean 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_220220824T233636_20220825T002615_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

6

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220824T052454_20220824T061433_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220824T070409_20220824T075348_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220824T134107_20220824T143046_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220824T143046_20220824T152022_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220824T161001_20220824T165937_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220824T165937_20220824T174916_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors: 28

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors: 2

P2P Quality Flags (1 Hz & 1 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below.

Number of products with errors: 2

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors: 26

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: 28

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	142	142	1	141	0
SIR_IOPR1B	90	102	3	99	0
SIR_IOPN1B	102	90	0	90	0
SIR_IOPM_2	142	142	94	48	0
SIR_IOPR_2	90	102	41	61	0

SIR_IOPN_2 SIR_IOP_P2P		102 90 24 27 27 0		66 27			0 0					
7.1 QCC Errors												
Number of QCC reports	eports with errors: 0											
7.2 QCC Warning	rnings											
	er of QCC reports with warnings 2049											
•	BCSHNCDF	-	MVIOEPFDNCDF		Total numb	per of occurrences of ea		ing DEPFDNCDF	PRSZODOEDENE	DI DMNCH	RBSZOPOEPNCDF	
SIR_IOPM1B	141		0		0	0	0	oei i bitobi	0		0	
	0 95		34 0		42 0		36 0		0		32 0	
SIR_IOPN_2	0		8		35 0	3	25 0		28 0		22	
_	89 0		39		41		35		37		0 24	
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	0		0		0 12		0		0 5		0 31	
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SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0