

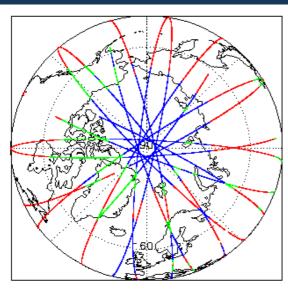
1. Overview

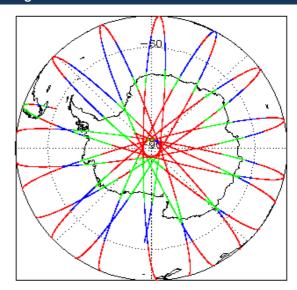
Report Production:	24-Oct-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

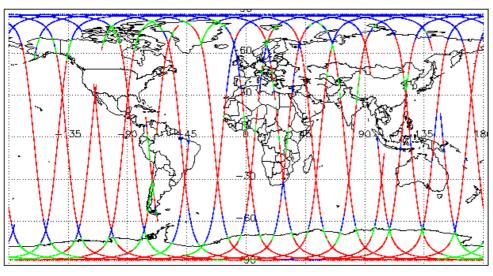
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1, 7.2	See Section 7.1, 7.2

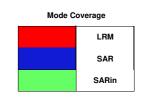
Mission / Inst	rument News
20-Oct-2022	None
21-Oct-2022	None
22-Oct-2022	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

Number of products with errors:

0

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 update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221021T025806_20221021T030232_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20221021T125341_20221021T132847_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221021T102513_20221021T104000_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221021T104202_20221021T105125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221021T111204_20221021T113029_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221021T144001_20221021T150719_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221021T221739_20221021T223605_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221021T083830_20221021T084403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221021T093358_20221021T093415_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221021T124746_20221021T125341_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221021T142237_20221021T142306_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221021T223740_20221021T223957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T015153_20221021T015438_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T074920_20221021T075205_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T082700_20221021T083355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T090009_20221021T090111_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T124127_20221021T124746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T155716_20221021T155839_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T183923_20221021T184327_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T190758_20221021T190829_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T191011_20221021T191322_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221021T215557_20221021T220222_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:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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.

Number of products with errors:

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Product	Test Failed	Description There is an array with the Many Durantic Tenangenthy height (solution 1)
CS_OFFL_SIR_IOPM_2_20221021T104202_20221021T105125_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_20221021T192919_20221021T195155_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20221021T001422_20221021T001631_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_20221021T002314_20221021T002743_C001	Mean Sea Surface (1), Mean 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_20221021T010451_20221021T010843_C001	Mean Sea Surface (1), Mean 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_20221021T011359_20221021T011432_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_20221021T015438_20221021T015712_C001	Mean Sea Surface (1), Mean 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_20221021T020431_20221021T020614_C001	Mean Sea Surface (1), Mean 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_20221021T034332_20221021T034508_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_20221021T051339_20221021T051456_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_20221021T052029_20221021T052348_C001	Mean Sea Surface (1), Mean 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_20221021T061143_20221021T061237_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_20221021T065259_20221021T065417_C001	Mean Sea Surface (1), Mean 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_20221021T065926_20221021T070237_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_20221021T083356_20221021T083632_C001	Mean Sea Surface (1), Mean 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_20221021T083830_20221021T084403_C001	Mean Sea Surface (1), Mean 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_20221021T092922_20221021T093355_C001	Mean Sea Surface (1), Mean 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_20221021T101303_20221021T101539_C001	Mean Sea Surface (1), Mean 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_20221021T114102_20221021T114624_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20221021T124746_20221021T125341_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20221021T142800_20221021T143205_C001	Mean Sea Surface (1), Mean 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_20221021T151002_20221021T151144_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_20221021T165011_20221021T165342_C001	Mean Sea Surface (1), Mean 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_20221021T182925_20221021T183246_C001	Mean Sea Surface (1), Mean 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_20221021T183759_20221021T183923_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_20221021T192001_20221021T192133_C001	Mean Sea Surface (1), Mean 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_20221021T201700_20221021T201809_C001	Mean Sea Surface (1), Mean 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_20221021T205933_20221021T210041_C001	Mean Sea Surface (1), Mean 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_20221021T215402_20221021T215557_C001	Mean Sea Surface (1), Mean 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_20221021T223740_20221021T223957_C001	Mean Sea Surface (1), Mean 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_20221021T010844_20221021T011359_C001	Mean Sea Surface (1), Mean 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_20221021T024637_20221021T025707_C001	Mean Sea Surface (1), Mean 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_20221021T042444_20221021T043216_C001	Mean Sea Surface (1), Mean 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_20221021T044130_20221021T044327_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_20221021T060337_20221021T061019_C001	Mean Sea Surface (1), Mean 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_20221021T061020_20221021T061143_C001	Mean Sea Surface (1), Mean 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_20221021T074224_20221021T074919_C001	Mean Sea Surface (1), Mean 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_20221021T074920_20221021T075205_C001	Mean Sea Surface (1), Mean 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_20221021T092354_20221021T092811_C001	Mean Sea Surface (1), Mean 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_20221021T092812_20221021T092922_C001	Mean Sea Surface (1), Mean 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_20221021T110157_20221021T110436_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_20221021T110436_20221021T110828_C001	Mean Sea Surface (1), Mean 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_20221021T124127_20221021T124746_C001	Mean Sea Surface (1), Mean 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_20221021T142307_20221021T142759_C001	Mean Sea Surface (1), Mean 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_20221021T160121_20221021T160958_C001	Mean Sea Surface (1), Mean 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_20221021T174054_20221021T174851_C001	Mean Sea Surface (1), Mean 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_20221021T192134_20221021T192904_C001	Mean Sea Surface (1), Mean 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_20221021T210042_20221021T210755_C001	Mean Sea Surface (1), Mean 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_20221021T221525_20221021T221738_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20221021T223957_20221021T224145_C001	Mean Sea Surface (1), Mean 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_20221021T224145_20221021T224648_C001	Mean Sea 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 20221021T025806 20221021T030232 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 20221021T125341 20221021T132847 C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more
35_331	Fower scaling error	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: 83 Product Test Failed Description Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR IOPM 2 20221020T235920 20221021T001258 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR IOPM 2 20221021T001631 20221021T002124 C001 Backscatter Quality 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_20221021T002206_20221021T002313_C001_ Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS OFFL SIR IOPM 2 20221021T002924 20221021T010451 C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality 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 Ocean Altimeter Range, SSHA, SWH CS OFFL SIR IOPM 2 20221021T012932 20221021T015039 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20221021T015116_20221021T015152_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality 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 20221021T015712 20221021T020041 C001 Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality set for one or more records CS OFFL SIR IOPM 2 20221021T020758 20221021T023516 C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR IOPM 2 20221021T023612 20221021T023615 C001 Backscatter Quality Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS_OFFL_SIR_IOPM_2_20221021T030633_20221021T033124_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality 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_20221021T033457_20221021T033956_C001 Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS OFFL SIR IOPM 2 20221021T034817 20221021T042127 C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS_OFFL_SIR_IOPM_2_20221021T043310_20221021T043550_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG CS_OFFL_SIR_IOPM_2_20221021T050645_20221021T050920_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range Quality, OCOG CS_OFFL_SIR_IOPM_2_20221021T051456_20221021T052029_C001 Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20221021T052806_20221021T060233_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20221021T060305_20221021T060336_C001 Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR IOPM 2 20221021T061238 20221021T061444 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS_OFFL_SIR_IOPM_2_20221021T063259_20221021T064854_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality 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 20221021T065417 20221021T065925 C001 Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR IOPM 2 20221021T070624 20221021T074151 C001 Altimeter Range and Backscatter Quality set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags. Ocean Altimeter Range, SSHA, SWH CS OFFL SIR IOPM 2 20221021T075206 20221021T075350 C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records

Ocean Altimeter Range, SSHA, SWH

Altimeter Range and Backscatter Quality set for one or more records

and Backscatter Quality, OCOG

CS_OFFL_SIR_IOPM_2_20221021T080922_20221021T082659_C001

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags

and the OCOG Altimeter Range and Backscatter Quality Flags have been

Out # Allinete Range, \$504, 5051 Out #	CS_OFFL_SIR_IOPM_2_20221021T083632_20221021T083830_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Dec. Part CPM _ 200101710340_202101710340_0001 Dec. Part CPM _ 200101710340_200101710340_0001 Dec. Part CPM _ 200101710340_000101710340_0001 Dec. Part CPM _ 200101710340_000101710340_0001 Dec. Part CPM _ 200101710340_0000101710340_000101710340_000101710340_000101710340_0000101710340_000101710340_0001017103	CS_OFFL_SIR_IOPM_2_20221021T084610_20221021T090009_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
CS_CFFL_SR_IQFM_2_28221021T101282 2022182T119242 CD01 CS_CFFL_SR_IQFM_2_28221021T101282 2022182T119245 CD01 CS_CFFL_SR_IQFM_2_2822102T11924 2022182T119245 CD01 CS_CFFL_SR_IQFM_2_2822102T11924 2022182T11924 CD01 CS_CFFL_SR_IQFM_2_2822102T11924 2022182T11	CS_OFFL_SIR_IOPM_2_20221021T090129_20221021T090251_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Security Confusion Confusion Review Confusion Confusion Confusion Confusion Review Confusion Confusion Review Confusion Confusion Review Confusion Confusion Review C	CS_OFFL_SIR_IOPM_2_20221021T095348_20221021T100750_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Lagrange Selds, 2004 CS_OFF_SRI JOPM_2_8021921T192813_0021021T10003_0001 Anneted Pages and Backscatter Quality Flags have been seld accounted from the page of the Company of the Compan	CS_OFFL_SIR_IOPM_2_20221021T101539_20221021T101741_C001		
CS_OFFL_SRI_OPM_2_202210211194042_20221021119505_COOI All Balkscotter Caulity, COOC All Control Review Program of Rischocatter Caulity and to You do not not control. CS_OFFL_SRI_OPM_2_202210211194062_20221021119505_COOI CS_OFFL_SRI_OPM_2_20221021119505_COOI CS_OFFL_SRI_OPM_2_20221021119	CS_OFFL_SIR_IOPM_2_20221021T101845_20221021T102243_C001		
CS_OFFL_SIR_IOPM_2_0221021T19544_0221021T19545_C001 Abstracts Flags_SIAL_SWH and Baskscatter Causity, COOC Abstracts Flags_SIAL_SWH and Baskscatter Causity Flags Inverted been abstracted Causity, COOC Abstracts Flags_SIAL_SWH and Baskscatter Causity Flags and Flags_SIAL_SWH and Baskscatter Causity Flags flags Inverted Express COOC Abstracts Flags_SIAL_SWH and Baskscatter Causity Flags flags flags Inverted been and to recommend to coop or more records The COOC Abstracts Flags_SIAL_SWH and Baskscatter Causity Flags Inverted been and to recommend to commend	CS_OFFL_SIR_IOPM_2_20221021T102513_20221021T104000_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Baskocater Quality, CCOQ Alimeter Range and Baskocater Quality Page and the COCO Admineter Range and Baskocater Quality Page and the CoCO Admineter Range and Baskocater Quality Page and the CoCO Admineter Range and Baskocater Quality Page and the CoCO Admineter Range and Baskocater Quality Page have been set for one or none records CS_OFFL_SIR_IOPM_2_202210211113722_202210211113928_C001 CS_OFFL_SIR_IOPM_2_202210211114011_202210211114006_C001 CS_OFFL_SIR_IOPM_2_202210211114011_202210211114096_C001 CS_OFFL_SIR_IOPM_2_202210211114011_202210211114096_C001 CS_OFFL_SIR_IOPM_2_202210211114011_202210211114096_C001 CS_OFFL_SIR_IOPM_2_2022102111115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211115044_C001 CS_OFFL_SIR_IOPM_2_202210211125044_C001 CS_OFFL_SIR_IOPM_2_202210211130459_C001 CS_OFFL_SIR_IOPM_2_202210211150444_0021021115008_C001 CS_OFFL_SIR_IOPM_2_202210211150444_00221021115008_C001 CS_OFFL_SIR_IOPM_2_202210211150444_00221021115008_C001 CS_OFFL_SIR_IOPM_2_20221	CS_OFFL_SIR_IOPM_2_20221021T104202_20221021T105125_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCGG Affirmeter Range and Bockscatter Quality Flags have been set to come of more records. CS_OFR_SIR_IOPM_2_20221021T119391_20221021T114008_C001 CS_OFR_SIR_IOPM_2_20221021T114018_2001 CS_OFR_SIR_IOPM_2_20221021T114048_2001 CS_OFR_SIR_IOPM_2_20221021T114048_2001 CS_OFR_SIR_IOPM_2_20221021T114048_2001 CS_OFR_SIR_IOPM_2_20221021T114048_2001 CS_OFR_SIR_IOPM_2_20221021T114048_2001 CS_OFR_SIR_IOPM_2_20221021T115044_20021021T120140_C001 CS_OFR_SIR_IOPM_2_20221021T115044_20021021T120140_C001 CS_OFR_SIR_IOPM_2_20221021T112000_20021021T120140_C001 CS_OFR_SIR_IOPM_2_20221021T112000_20021021T120140_C001 CS_OFR_SIR_IOPM_2_20221021T13044_20021021T130440_2001 CS_OFR_SIR_IOPM_2_20221021T130401_C001 CS_OFR_SIR_	CS_OFFL_SIR_IOPM_2_20221021T111204_20221021T113029_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dec OFFL SIR JOPM 2 20221021T114011 20221021T11402 CO01 CS OFFL SIR JOPM 2 20221021T114024 20221021T114084 CO01 CS OFFL SIR JOPM 2 20221021T114024 20221021T114084 CO01 CS OFFL SIR JOPM 2 20221021T115044 20221021T120146 CO01 CS OFFL SIR JOPM 2 20221021T115044 20221021T120146 CO01 CS OFFL SIR JOPM 2 20221021T115044 20221021T120146 CO01 CS OFFL SIR JOPM 2 20221021T12040 CO221021T120146 CO01 CS OFFL SIR JOPM 2 20221021T12040 CO221021T120146 CO01 CS OFFL SIR JOPM 2 20221021T12040 CO221021T12040 CO021021T12040 CO01 CS OFFL SIR JOPM 2 20221021T12040 CO221021T13047 CO01 CS OFFL SIR JOPM 2 20221021T13049 CO021021T13047 CO01 CS OFFL SIR JOPM 2 20221021T13049 CO221021T13049 CO01 CS OFFL SIR JOPM 2 20221021T15044 CO221021T15079 CO01 CS OFFL SIR JOPM 2 20221021T15040 CO2	CS_OFFL_SIR_IOPM_2_20221021T113722_20221021T113928_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscater Quality CS_OFFL_SIR_JOPM_2_20221021T114624_20221021T114848_CO01 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records and the COOS Altimeter Range and Backscatter Quality Flags have been set for one or more records OCS_OFFL_SIR_JOPM_2_20221021T115344_20221021T12090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T120500_20221021T12090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T120500_20221021T12090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T120500_20221021T12090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T120500_20221021T12090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13090_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13000_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13000_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13000_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13000_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_20221021T13000_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_CO01 OCS_OFFL_SIR_JOPM_2_20221021T130500_CO01 OCS_OFFL_SIR_JOPM_2_20221021T15000_CO01 OCS_OFF	CS_OFFL_SIR_IOPM_2_20221021T113931_20221021T114008_C001		
and Baskscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T115344_20221021T120146_C001 CS_OFFL_SIR_IOPM_2_20221021T115344_20221021T120146_C001 CS_OFFL_SIR_IOPM_2_20221021T125344_20221021T120146_C001 CS_OFFL_SIR_IOPM_2_20221021T125344_20221021T130401_C001 CS_OFFL_SIR_IOPM_2_20221021T133459_20221021T130401_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T140011_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T140011_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T154401_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T154401_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T154401_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T154401_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T154402_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T154402_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T154402_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T15440_20221021T15001_C001 CS_OFFL_SIR_IOPM_2_20221021T15440_20221021T16001_C001 CC00A Altimeter Range Guality, CCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CC00A Altimeter Range and Backscatter Quality Flags have been set for one or more records CC00A Altimeter Range and Backscatter Quality Flags have been set for one or more records CC	CS_OFFL_SIR_IOPM_2_20221021T114011_20221021T114102_C001		
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221021T125341_20221021T121909_C001 CS_OFFL_SIR_IOPM_2_20221021T125341_20221021T132847_C001 CS_OFFL_SIR_IOPM_2_20221021T125341_20221021T132847_C001 CS_OFFL_SIR_IOPM_2_20221021T133459_20221021T132847_C001 CS_OFFL_SIR_IOPM_2_20221021T133451_20221021T132847_C001 CS_OFFL_SIR_IOPM_2_20221021T133451_20221021T134031_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T13409_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T13409_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T140819_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T140819_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1544001_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1544001_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1544001_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T151442_20221021T151914_C001 CS_OFFL_SIR_IOPM_2_20221021T151442_20221021T151914_C001 CS_OFFL_SIR_IOPM_2_20221021T151442_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T151442_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T151444_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T1515442_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T1515442_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T1515442_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T1515442_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T1515442_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T160529_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T160529_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T160529_C001 CCCCA Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T160529_C001 CCCCA Altimeter Range CSSHA, SWH and Backscatter Quality Flags have been set for one or more records CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T160521_C001 CCCCA Altimeter Range SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221021T114624_20221021T114848_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Cuality COCG Altimeter Range and Backscatter Cuality Flags have been a	CS_OFFL_SIR_IOPM_2_20221021T115344_20221021T120146_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T134451_20221021T140819_CO01 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T140819_CO01 CS_OFFL_SIR_IOPM_2_20221021T144001_20221021T150719_CO01 CS_OFFL_SIR_IOPM_2_20221021T1544001_20221021T150719_CO01 CS_OFFL_SIR_IOPM_2_20221021T1544001_20221021T150719_CO01 CS_OFFL_SIR_IOPM_2_20221021T15442_20221021T151914_CO01 CS_OFFL_SIR_IOPM_2_20221021T151442_20221021T15914_CO01 CS_OFFL_SIR_IOPM_2_20221021T151442_20221021T159058_CO01 CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T150058_CO01 CS_OFFL_SIR_IOPM_2_20221021T155404_20221021T155038_CO01 CS_OFFL_SIR_IOPM_2_20221021T155440_20221021T155038_CO01 CS_OFFL_SIR_IOPM_2_20221021T155440_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T165913_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T165913_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T165913_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T165913_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T165913_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T165913_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_CO01 CS	CS_OFFL_SIR_IOPM_2_20221021T120500_20221021T121909_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T140819_C001 CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1513432_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1513432_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1513432_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1513432_20221021T150719_C001 CS_OFFL_SIR_IOPM_2_20221021T1513432_20221021T150029_C001 CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T165038_C001 CS_OFFL_SIR_IOPM_2_20221021T155404_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T155404_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T16448_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T16448_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T16448_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T16448_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T16448_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CCGA_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA_Altimeter Range and Backscatter Quality Flags have been set for one or mo	CS_OFFL_SIR_IOPM_2_20221021T125341_20221021T132847_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T151944_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CCCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCOG Altimeter Range and Backscatter Qualit	CS_OFFL_SIR_IOPM_2_20221021T133459_20221021T134031_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T151432_20221021T151914_C001 CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T152038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T165840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T165840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T165840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T165840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 COCOA Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG COCOA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 COCOA Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records COCOA Altimeter Range And Backscatter Quality Flags have been set for one or more records COCOA Altimeter Range And Backscatter Quality Flags have been set for one or more records COCOA Altimeter Range And Backscatter Quality Flags hav	CS_OFFL_SIR_IOPM_2_20221021T134511_20221021T140819_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T152029_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T152038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T16408_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T163342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CCGan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range, SSHA, SWH 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, OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20221021T144001_20221021T150719_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T17	CS_OFFL_SIR_IOPM_2_20221021T151432_20221021T151914_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 And 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 have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001	CS_OFFL_SIR_IOPM_2_20221021T151944_20221021T152029_C001		
CS_OFFL_SIR_IOPM_2_20221021T155840_20221021T160121_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001 Cs_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 Cs_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 Cs_OFFL_SIR_IOPM_2_20221021T165342_20221021T170701_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 OCean Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCO	CS_OFFL_SIR_IOPM_2_20221021T152404_20221021T155038_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001 CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 and Backscatter Quality, OCOG Backscatter 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_20221021T170315_20221021T170701_C001 The OCOG Altimeter Range, SSHA, SWH 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_20221021T155840_20221021T160121_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221021T161408_20221021T164529_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221021T165342_20221021T165913_C001		
	CS_OFFL_SIR_IOPM_2_20221021T170315_20221021T170701_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20221021T173016_20221021T173124_C001	Backscatter Quality	for one or more records
CS_OFFL_SIR_IOPM_2_20221021T173808_20221021T174054_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_20221021T183246_20221021T183759_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_20221021T184327_20221021T185941_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_20221021T192919_20221021T195155_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_20221021T195224_20221021T200433_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_20221021T200831_20221021T201246_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_20221021T201304_20221021T201700_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_20221021T202223_20221021T205546_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_20221021T205648_20221021T205933_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_20221021T210941_20221021T212226_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_20221021T212707_20221021T212823_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_20221021T212825_20221021T213117_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_20221021T213159_20221021T214352_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_20221021T214628_20221021T215146_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_20221021T220223_20221021T221524_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_20221021T221739_20221021T223605_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_20221021T225702_20221021T230728_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_20221021T230907_20221021T232239_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_20221021T232555_20221021T233058_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_20221021T233930_20221021T234028_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_20221021T234733_20221021T235131_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_20221021T235816_20221022T000118_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_20221021T025711_20221021T025806_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_20221021T042338_20221021T042443_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_20221021T043216_20221021T043241_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_20221021T111042_20221021T111203_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_20221021T141733_20221021T141759_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_20221021T151002_20221021T151144_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_20221021T183759_20221021T183923_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221021T062128_20221021T062402_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_20221021T104000_20221021T104201_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221021T124127_20221021T124746_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221021T173345_20221021T173700_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20221021T010451_20221021T010843_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_20221021T011359_20221021T011432_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_20221021T012549_20221021T012907_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_20221021T012925_20221021T012931_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_20221021T020431_20221021T020614_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_20221021T025711_20221021T025806_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_20221021T030232_20221021T030337_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_20221021T033327_20221021T033456_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_20221021T042127_20221021T042253_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_20221021T043216_20221021T043241_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_20221021T045351_20221021T045725_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_20221021T052029_20221021T052348_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_20221021T061143_20221021T061237_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_20221021T061922_20221021T061955_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_20221021T062046_20221021T062128_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_20221021T083830_20221021T084403_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality PLRM	set for one or more records
CS_OFFL_SIR_IOPN_2_20221021T092329_20221021T092354_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_20221021T092922_20221021T093355_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_20221021T101303_20221021T101539_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_20221021T105125_20221021T105406_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_20221021T114102_20221021T114624_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_20221021T115125_20221021T115343_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_20221021T124746_20221021T125341_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_20221021T141041_20221021T141223_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_20221021T142800_20221021T143205_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_20221021T160959_20221021T161408_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_20221021T165011_20221021T165342_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_20221021T165914_20221021T170029_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_20221021T174852_20221021T175038_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_20221021T182925_20221021T183246_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_20221021T183759_20221021T183923_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_20221021T192001_20221021T192133_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_20221021T205547_20221021T205623_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_20221021T205933_20221021T210041_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_20221021T214449_20221021T214628_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_20221021T215402_20221021T215557_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_20221021T223740_20221021T223957_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_20221021T225341_20221021T225702_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_20221021T234037_20221021T234128_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_20221021T235131_20221021T235643_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_20221021T001259_20221021T001422_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

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Dance, SSUA, SWILL and Deckgoother Quality Flags
CS_OFFL_SIR_IOPR_2_20221021T015153_20221021T015438_C001	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_20221021T020615_20221021T020757_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_20221021T024637_20221021T025707_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_20221021T034508_20221021T034816_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_20221021T042444_20221021T043216_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_20221021T044432_20221021T044604_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_20221021T050921_20221021T051339_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_20221021T052348_20221021T052805_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_20221021T060337_20221021T061019_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_20221021T061020_20221021T061143_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_20221021T061616_20221021T061914_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_20221021T062128_20221021T062402_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_20221021T062423_20221021T062440_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_20221021T064855_20221021T065259_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_20221021T070238_20221021T070624_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_20221021T074224_20221021T074919_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_20221021T074920_20221021T075205_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_20221021T082700_20221021T083355_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_20221021T090009_20221021T090111_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_20221021T090251_20221021T090732_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_20221021T092354_20221021T092811_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_20221021T095217_20221021T095348_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_20221021T100751_20221021T101303_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_20221021T104000_20221021T104201_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_20221021T124127_20221021T124746_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_20221021T132847_20221021T133034_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

	Ocean Altimeter Range, SSHA, SWH	I
CS_OFFL_SIR_IOPR_2_20221021T134257_20221021T134510_C001	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_20221021T142143_20221021T142236_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_20221021T142307_20221021T142759_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_20221021T150720_20221021T151002_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_20221021T152152_20221021T152403_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_20221021T160121_20221021T160958_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_20221021T164530_20221021T165011_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_20221021T170030_20221021T170315_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_20221021T174054_20221021T174851_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_20221021T175038_20221021T175206_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_20221021T182548_20221021T182924_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_20221021T190758_20221021T190829_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_20221021T191011_20221021T191322_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_20221021T192134_20221021T192904_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_20221021T200434_20221021T200635_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_20221021T201809_20221021T202222_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_20221021T210042_20221021T210755_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_20221021T214353_20221021T214449_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_20221021T215557_20221021T220222_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_20221021T221525_20221021T221738_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_20221021T223957_20221021T224145_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_20221021T224145_20221021T224648_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_20221021T224652_20221021T224712_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

Number of products with errors:

63

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:

C

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.
- > 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_20221020T233207_20221021T002142_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOP_2_20221021T002142_20221021T011121_C001	Mean Sea Surface (1), Mean 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_20221021T011121_20221021T020057_C001	Mean Sea Surface (1), Mean 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_20221021T020057_20221021T025036_C001	Mean Sea Surface (1), Mean 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_20221021T025036_20221021T034012_C001	Mean Sea Surface (1), Mean 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_20221021T034012_20221021T042951_C001	Mean Sea Surface (1), Mean 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_20221021T042951_20221021T051927_C001	Mean Sea Surface (1), Mean 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_20221021T051927_20221021T060906_C001	Mean Sea Surface (1), Mean 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_20221021T060906_20221021T065841_C001	Mean Sea Surface (1), Mean 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_20221021T065841_20221021T074820_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_20221021T074820_20221021T083756_C001	Mean Sea Surface (1), Mean 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_20221021T083756_20221021T092735_C001	Mean Sea Surface (1), Mean 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_20221021T092735_20221021T101710_C001	Mean Sea Surface (1), Mean 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_20221021T101710_20221021T110649_C001	Mean Sea Surface (1), Mean 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_20221021T110649_20221021T115625_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_2_20221021T115625_20221021T124604_C001	Mean Sea Surface (1), Mean 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_20221021T124604_20221021T133540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221021T133540_20221021T142519_C001	Mean Sea Surface (1), Mean 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_20221021T142519_20221021T151455_C001	Mean Sea Surface (1), Mean 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_20221021T151455_20221021T160434_C001	Mean Sea Surface (1), Mean 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_20221021T160434_20221021T165409_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221021T165409_20221021T174348_C001	Mean Sea Surface (1), Mean 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_20221021T174348_20221021T183324_C001	Mean Sea Surface (1), Mean 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_20221021T183324_20221021T192303_C001	Mean Sea Surface (1), Mean 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_20221021T192303_20221021T201239_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_20221021T201239_20221021T210218_C001	Mean Sea Surface (1), Mean 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_20221021T210218_20221021T215153_C001	Mean Sea Surface (1), Mean 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_20221021T215153_20221021T224132_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20221021T224132_20221021T233108_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220221021T025036_20221021T034012_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220221021T124604_20221021T133540_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more

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:

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:

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:

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

3