

1. Overview

Report Production:	04-Jan-2023	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

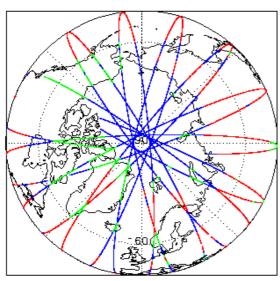
We would	love to hear	from v	vou!

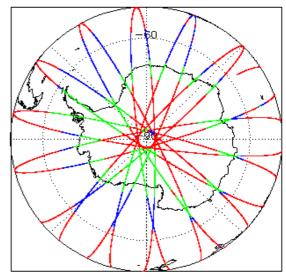
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

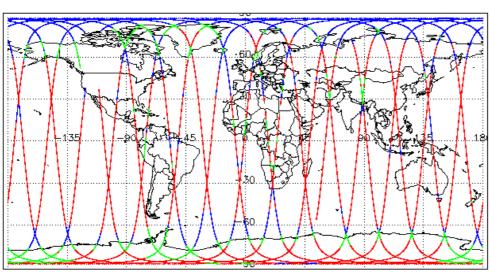
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

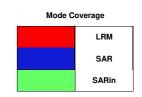
Mission / In	strument News
23-Dec-20	None
24-Dec-20	None
25-Dec-20	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

0

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:

16

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221224T003205_20221224T005202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221224T043144_20221224T045824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221224T060521_20221224T061123_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T020334_20221224T020450_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T064901_20221224T065022_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T072958_20221224T073518_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T100739_20221224T101229_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T113947_20221224T114056_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T145503_20221224T145630_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T163815_20221224T164125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221224T195315_20221224T195616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221224T083728_20221224T083845_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221224T140637_20221224T141017_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221224T154608_20221224T154903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221224T191551_20221224T192112_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221224T194953_20221224T195032_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

. . . .

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

53

Test Failed Description

-	1	
CS_OFFL_SIR_IOPN_2_20221224T010322_20221224T010441_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_20221224T020154_20221224T020223_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_20221224T023325_20221224T023452_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_20221224T024015_20221224T024325_C001	Mean Sea Surface (1), Mean 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_20221224T033619_20221224T033747_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_20221224T041307_20221224T041421_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_20221224T041915_20221224T042241_C001	Mean Sea Surface (1), Mean 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_20221224T055352_20221224T055627_C001	Mean Sea Surface (1), Mean 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_20221224T064901_20221224T065022_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_20221224T072958_20221224T073519_C001	Mean Sea Surface (1), Mean 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_20221224T082825_20221224T083038_C001	Mean Sea Surface (1), Mean 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_20221224T091121_20221224T091310_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_20221224T092139_20221224T092330_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_20221224T100739_20221224T101229_C001	Mean Sea Surface (1), Mean 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_20221224T113947_20221224T114056_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_20221224T123207_20221224T123423_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_20221224T141018_20221224T141332_C001	Mean Sea Surface (1), Mean 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_20221224T141852_20221224T142010_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_20221224T154903_20221224T155222_C001	Mean Sea Surface (1), Mean 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_20221224T155748_20221224T155913_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_20221224T173556_20221224T173735_C001	Mean Sea Surface (1), Mean 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_20221224T181926_20221224T182024_C001	Mean Sea Surface (1), Mean 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_20221224T195725_20221224T195939_C001	Mean Sea Surface (1), Mean 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_20221224T204359_20221224T204545_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_20221224T205229_20221224T205847_C001	Mean Sea Surface (1), Mean 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_20221224T213408_20221224T213804_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_20221224T223335_20221224T223532_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_20221224T000514_20221224T001412_C001	Mean Sea Surface (1), Mean 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_20221224T014504_20221224T015350_C001	Mean Sea Surface (1), Mean 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_20221224T015559_20221224T015812_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_20221224T020223_20221224T020334_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_20221224T032041_20221224T033005_C001	Mean Sea Surface (1), Mean 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_20221224T033005_20221224T033137_C001	Mean Sea Surface (1), Mean 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_20221224T050227_20221224T050903_C001	Mean Sea Surface (1), Mean 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_20221224T050903_20221224T051439_C001	Mean Sea Surface (1), Mean 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_20221224T064153_20221224T064725_C001	Mean Sea Surface (1), Mean 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_20221224T064726_20221224T064901_C001	Mean Sea Surface (1), Mean 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_20221224T071125_20221224T071339_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_20221224T082406_20221224T082535_C001	Mean Sea Surface (1), Mean 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_20221224T082535_20221224T082825_C001	Mean Sea Surface (1), Mean 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_20221224T083728_20221224T083845_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_20221224T101250_20221224T101520_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_IOPR_2_20221224T114249_20221224T114803_C001	Mean Sea Surface (1), Mean 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_20221224T131048_20221224T131252_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_20221224T131620_20221224T131812_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_20221224T132153_20221224T132953_C001	Mean Sea Surface (1), Mean 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_20221224T150022_20221224T150916_C001	Mean Sea Surface (1), Mean 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_20221224T164125_20221224T164913_C001	Mean Sea Surface (1), Mean 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_20221224T182024_20221224T182607_C001	Mean Sea Surface (1), Mean 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_20221224T195940_20221224T200104_C001	Mean Sea Surface (1), Mean 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_20221224T200104_20221224T200627_C001	Mean Sea Surface (1), Mean 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_20221224T213804_20221224T214326_C001	Mean Sea Surface (1), Mean 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_20221224T231626_20221224T232630_C001	Mean Sea 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.

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:

Desident	Test Falled	Description
Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221224T002650_20221224T003203_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_20221224T003205_20221224T005201_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_20221224T005504_20221224T005946_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_20221224T010817_20221224T014111_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_20221224T015351_20221224T015558_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_20221224T024649_20221224T030820_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_20221224T031106_20221224T032041_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_20221224T033231_20221224T033618_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_20221224T035225_20221224T035715_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_20221224T035903_20221224T040930_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_20221224T041422_20221224T041914_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_20221224T042554_20221224T043134_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_20221224T043143_20221224T045824_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_20221224T051911_20221224T052225_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_20221224T052355_20221224T054653_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_20221224T055628_20221224T055820_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_20221224T060521_20221224T061123_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_20221224T062723_20221224T063452_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_20221224T065022_20221224T065333_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_20221224T065556_20221224T070235_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_20221224T070309_20221224T071125_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_20221224T071339_20221224T072838_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_20221224T073813_20221224T074233_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

Antenio Page or Galacterio Cody De 15 or one more rooms come. Cancel Allerian Flags, 85M-8, 95M-1 Cancel Allerian Flags, 95M-9, 95M-1 Cancel Allerian Flags,	CS_OFFL_SIR_IOPM_2_20221224T074442_20221224T075911_C001	Ocean Altimeter Range, SSHA, SWH 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
Allered Programs of Backsonth Cashy 59, 2001 201100404, C001	20.0551.010.1001.0.2001.001.7002.5	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
Second Column	CS_OFFL_SIR_IOPM_2_20221224T080051_20221224T081533_C001	Altimeter Range and Backscatter Quality	set for one or more records
Control Section Control Cont	CS_OFFL_SIR_IOPM_2_20221224T083845_20221224T084454_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
De Blossester Chathy, CODD Alle voer Rivage and Blossester Chathy Flags have been Alle voer Rivage and Blossester Chathy, CODD Alle voer Rivage and Blossester Chathy Alle voer Alle voer Rivage (Lasty, CODD Alle voer Rivage and Blossester Chathy Alle voer A	CS_OFFL_SIR_IOPM_2_20221224T084616_20221224T084853_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bedsociar Gualty Copy Ph. Self, CMM 2, 202212241193410, 202212241193491, COD1 Copy Ph. Self, CMM 2, 202212241193491, COD1 Copy Ph. Self, CMM 2, 202212241193491, COD1 Copy Ph. Self, CMM 2, 202212241193592, 202212241193491, COD1 Copy Ph. Self, CMM 2, 202212241193592, 202212241193491, COD1 Copy Ph. Self, CMM 2, 202212241193592, 202212241193392, COD1 Copy Ph. Self, CMM 2, 202212241193592, COD1 Copy Ph. Self, CMM 2, 202212241193594, COD1 Copy Ph. Self, CMM 2, 202212241193592, COD1 Copy Ph. Self, CMM 2, 202212241193594, CO201241193594, COD1 Copy Ph. Self, CMM 2, 202212241193594, COD1 Copy Ph. Self, CMM 2, 2	CS_OFFL_SIR_IOPM_2_20221224T085502_20221224T090956_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL SRI , OPM 2 2021224T10225 2021224T10596, 2001 Control Report Control	CS_OFFL_SIR_IOPM_2_20221224T091310_20221224T092139_C001		
SS_OFFL_SIR_JOPM_2_202212241105026_2022124110503_C0221224110503_C0	CS_OFFL_SIR_IOPM_2_20221224T092410_20221224T094640_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sadescaler Quality Co. One or more records CS_OFFL_SRI_JOPM_2_20221224T110509_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_20221224T11050_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_2001 CS_OFFL_SRI_JOPM_2_20221224T110709_2001 CS_OFFL_SRI_JOPM_2_20021224T110709_2001 CS_OFFL_SRI_JOPM_2_20021224T110709_20	CS_OFFL_SIR_IOPM_2_20221224T102225_20221224T104849_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the obcode Altrender Range, and Backscalater Coustly Flags have been all backscalater Coustly Flags have been all common and an alternative Range and Backscalater Coustly Flags have been all common and an alternative Range and Backscalater Coustly Flags have been all common and an alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range and Backscalater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and alternative Range Associater Coustly Flags have been all common and al	CS_OFFL_SIR_IOPM_2_20221224T105504_20221224T105948_C001		, , ,
and Backcaster Quality COCG Almeter Range and Backcaster Quality Flags have been at the COCG Almeter Range and Backcaster Quality Flags have been set to row or more records CS_OFFL_SIR_JOPM_2_80221224T120188_20221224T12019_CO01 CS_OFFL_SIR_JOPM_2_80221224T120184_20221224T131048_CO01 CS_OFFL_SIR_JOPM_2_80221224T131044_20221224T131048_CO01 CS_OFFL_SIR_JOPM_2_80221224T131048_20021224T131048_CO01 CS_OFFL_SIR_JOPM_2_80221224T131048_20021224T131048_CO01 CS_OFFL_SIR_JOPM_2_80221224T131068_20021224T131048_CO01 CS_OFFL_SIR_JOPM_2_80221224T131068_20021224T131048_CO01 CS_OFFL_SIR_JOPM_2_80221224T131068_20021224T130017_CO01 CS_OFFL_SIR_JOPM_2_80221224T13008_20021224T130017_CO01 CS_OFFL_SIR_JOPM_2_80221224T13008_20021224T130017_CO01 CS_OFFL_SIR_JOPM_2_80221224T13008_20021224T130017_CO01 CS_OFFL_SIR_JOPM_2_80221224T13008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_2002124T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T14008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T16008_20021224T140086_CO01 CS_OFFL_SIR_JOPM_2_80221224T16008_20021224T15008_CO01 CS_OFFL_SIR_JOPM_2_80221224T1	CS_OFFL_SIR_IOPM_2_20221224T110325_20221224T110533_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Alterneter Range and Backscatter Quality Flags have been set for one or nor necods CS_OFFL_SIR_JOPM_2_20221224T123424_20221224T13019_CO01 CS_OFFL_SIR_JOPM_2_20221224T13424_20221224T13019_CO01 CS_OFFL_SIR_JOPM_2_20221224T13498_20221224T13019_CO01 CS_OFFL_SIR_JOPM_2_20221224T13498_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13398_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13301_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13301_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13301_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13301_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13301_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13301_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13301_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13019_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13019_20221224T13017_CO01 CS_OFFL_SIR_JOPM_2_20221224T13017_CO01 C	CS_OFFL_SIR_IOPM_2_20221224T110708_20221224T112857_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
So. OFFL_SIR_JOPM_2_20221224T151244_20221224T151304_C001 Sackscatter Quality CoOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM_2_20221224T131906_20221224T140536_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T140536_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T153301_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T15334_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T15334_20221224T153301_C001 CS_OFFL_SIR_JOPM_2_20221224T15334_20221224T15334_C001 CS_OFFL_SIR_JOPM_2_20221224T15334_20221224T15330001 CS_OFFL_SIR_JOPM_2_20221224T15334_20221224T15330001 CS_OFFL_SIR_JOPM_2_20221224T1543000000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20221224T120128_20221224T122649_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality (CS_OFFL_SIR_IOPM_2_20221224T131906_20221224T132017_CO01 CS_OFFL_SIR_IOPM_2_20221224T131906_20221224T132017_CO01 CS_OFFL_SIR_IOPM_2_20221224T133301_20221224T140586_CO01 CS_OFFL_SIR_IOPM_2_20221224T133301_20221224T140586_CO01 CS_OFFL_SIR_IOPM_2_20221224T142330_20221224T140586_CO01 CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T142339_CO01 CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T142339_CO01 CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T142339_CO01 CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T142309_CO01 CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T145504_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T154688_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15242_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T15244_CO01 CS_OFFL_SIR_IOPM_2_20221224T16224_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16224_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16224_20221224T15234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16224_20221224T15224_CO01 CS_OFFL_SIR_IOPM_2_20221224T16224_20221224T15224_CO01 CS_OFFL_SIR_IOPM_2_20221224T16224_20221224T16224_CO01 CS_OFFL_SIR_IOPM_2_20221224T16224_20221224T16224_CO01 CS_OFFL_SIR_IOPM_2_20221224T16444_2	CS_OFFL_SIR_IOPM_2_20221224T123424_20221224T124019_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been and the OCGA Altimeter Range and Backscatter Quality Flags have been and the OCGA Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T141332_20221224T141851_CO01 CS_OFFL_SIR_IOPM_2_20221224T142338_2001 CS_OFFL_SIR_IOPM_2_20221224T142338_2001 CS_OFFL_SIR_IOPM_2_20221224T142339_CO01 CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T145904_CO01 CS_OFFL_SIR_IOPM_2_20221224T1524_20_20221224T15214_CO01 CS_OFFL_SIR_IOPM_2_20221224T1524_20_20221224T152408_CO01 CS_OFFL_SIR_IOPM_2_20221224T1524_20_20221224T152408_CO01 CS_OFFL_SIR_IOPM_2_20221224T15240_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T15240_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T15240_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T15240_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T15240_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T15240_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T15240_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T16230_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T16230_CO01 CS_OFFL_SIR_I	CS_OFFL_SIR_IOPM_2_20221224T124245_20221224T131048_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG 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_20221224T141332_20221224T141851_C001 CS_OFFL_SIR_IOPM_2_20221224T14238_20221224T14239_C001 CS_OFFL_SIR_IOPM_2_20221224T14238_20221224T14239_C001 CS_OFFL_SIR_IOPM_2_20221224T14238_20221224T145904_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T152134_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T152134_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T154608_C001 CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T152342_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T152342_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T152342_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T152342_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T16441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T165440_C0021224T16540_C001 CS_OFFL_SIR_IOPM_2_20221224T16540_C0021224T16540_C001 COCAR Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T16441_20221224T162048_C001 COCAR Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_	CS_OFFL_SIR_IOPM_2_20221224T131906_20221224T132017_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T142339_C001 CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T142339_C001 CS_OFFL_SIR_IOPM_2_20221224T145630_20221224T145904_C001 CS_OFFL_SIR_IOPM_2_20221224T145630_20221224T145904_C001 CS_OFFL_SIR_IOPM_2_20221224T151234_20221224T152134_C001 CS_OFFL_SIR_IOPM_2_20221224T151234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T15234_20221224T15234_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T162038_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T16441_20221224T162048_C001 CS_OFFL_S	CS_OFFL_SIR_IOPM_2_20221224T133301_20221224T140636_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T145630_20221224T145904_CO01 CS_OFFL_SIR_IOPM_2_20221224T151234_20221224T152134_CO01 CS_OFFL_SIR_IOPM_2_20221224T151234_20221224T152134_CO01 CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T152134_CO01 CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T152748_CO01 CS_OFFL_SIR_IOPM_2_20221224T15342_20221224T155748_CO01 CS_OFFL_SIR_IOPM_2_20221224T16234_20221224T16233_20221224T16233_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16233_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16238_20221224T16234_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162048_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162048_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_CO01 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_CO01 COLOR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_CO01 COLOR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_CO01 COLOR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_CO01 COLOR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records COLOR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records COLOR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20221224T141332_20221224T141851_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221224T151234_20221224T152134_C001 CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T154608_C001 CS_OFFL_SIR_IOPM_2_20221224T155342_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T155342_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162714_C001 CCCAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCCAN Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCCAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCCAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCCAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCCAN Alt	CS_OFFL_SIR_IOPM_2_20221224T142308_20221224T142339_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T154608_C001 CS_OFFL_SIR_IOPM_2_20221224T155342_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T16140238_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T162048_C001 CS_OFFL_SIR_IOPM	CS_OFFL_SIR_IOPM_2_20221224T145630_20221224T145904_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221224T155342_20221224T155748_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T161253_C001 CS_OFFL_SIR_IOPM_2_20221224T161241_20221224T162048_C001 CS_OFFL_SIR_IOPM_2_20221224T161231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T162231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T162231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T162714_C001 CS_OFFL_SIR_IOPM_2_20221224T1627	CS_OFFL_SIR_IOPM_2_20221224T151234_20221224T152134_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 Cs_OFFL_SIR_IOPM_2_20221224T160238_20221224T161253_C001 Cs_OFFL_SIR_IOPM_2_20221224T160238_20221224T162048_C001 Cs_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 Cs_OFFL_SIR_IOPM_2_20221224T162231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T162231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T162231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T16231_20221224T162714_C001 Cs_OFFL_SIR_IOPM_2_20221224T165140_20221224T172459_C001 Cs_OFFL_SIR_IOPM_2_20221224T165140_	CS_OFFL_SIR_IOPM_2_20221224T152420_20221224T154608_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20221224T165140_20221224T172459_C001 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221224T155342_20221224T155748_C001		
CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH 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_20221224T160238_20221224T161253_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221224T162231_20221224T162714_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality, OCOG and Himmeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and Himmeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been Altimeter Range	CS_OFFL_SIR_IOPM_2_20221224T161441_20221224T162048_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221224T165140_20221224T172459_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221224T162231_20221224T162714_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20221224T165140_20221224T172459_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20221224T172728_20221224T173234_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_20221224T173254_20221224T173555_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_20221224T174334_20221224T181421_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_20221224T181600_20221224T181802_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_20221224T181802_20221224T181926_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_20221224T182951_20221224T183008_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_20221224T183325_20221224T190423_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_20221224T190627_20221224T191133_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_20221224T191153_20221224T191204_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_20221224T191211_20221224T191338_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_20221224T192112_20221224T193110_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_20221224T193729_20221224T194953_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_20221224T201156_20221224T202719_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_20221224T202858_20221224T204310_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_20221224T204545_20221224T205045_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_20221224T205126_20221224T205229_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_20221224T205847_20221224T211820_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_20221224T211822_20221224T212107_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_20221224T212230_20221224T213037_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_20221224T220003_20221224T222228_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_20221224T222626_20221224T223002_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_20221224T223025_20221224T223335_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_20221224T223647_20221224T230305_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_20221224T233634_20221225T000140_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_20221224T110545_20221224T110555_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_20221224T191205_20221224T191211_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_20221224T050227_20221224T050903_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_20221224T075912_20221224T080050_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_20221224T161253_20221224T161441_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (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.

lumber of products with errors:

Test Failed Product Description OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR IOPN 2 20221223T235852 20221224T000513 C001 more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_IOPN_2_20221224T001412_20221224T001437_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records PI RM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_IOPN_2_20221224T020334_20221224T020450_C001 more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_IOPN_2_20221224T021352_20221224T021440_C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_IOPN_2_20221224T021855_20221224T022017_C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR IOPN 2 20221224T024015 20221224T024325 C001 Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR IOPN 2 20221224T034906 20221224T035224 C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_IOPN_2_20221224T051439_20221224T051529_C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_IOPN_2_20221224T060222_20221224T060447_C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_IOPN_2_20221224T063453_20221224T063536_C001 OCOG Backscatter Quality 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 and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_IOPN_2_20221224T072958_20221224T073519_C001 Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_IOPN_2_20221224T073735_20221224T073813_C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR IOPN 2 20221224T074233 20221224T074410 C001 OCOG Backscatter Quality 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 and Backscatter Quality PLRM, OCOG CS OFFL SIR IOPN 2 20221224T082825 20221224T083038 C001 Altimeter Range and Backscatter Quality set for one or more records PLRM OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR IOPN 2 20221224T085056 20221224T085502 C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR IOPN 2 20221224T094822 20221224T095151 C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR IOPN 2 20221224T100739 20221224T101229 C001 Altimeter Range and Backscatter Quality set for one or more records PLRM OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR IOPN 2 20221224T105411 20221224T105504 C001 OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS OFFL SIR IOPN 2 20221224T105949 20221224T110203 C001 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 PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR IOPN 2 20221224T123026 20221224T123146 C001 OCOG Backscatter Quality

CS_OFFL_SIR_IOPN_2_20221224T141018_20221224T141332_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_20221224T143759_20221224T143856_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_20221224T151138_20221224T151210_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_20221224T162049_20221224T162203_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_20221224T193111_20221224T193216_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_20221224T214326_20221224T214359_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_20221224T215434_20221224T215817_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_20221224T223019_20221224T223024_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_20221224T223335_20221224T223532_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_20221224T000514_20221224T001412_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_20221224T001437_20221224T001700_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_20221224T010441_20221224T010817_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_20221224T014443_20221224T014504_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_20221224T014504_20221224T015350_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_20221224T015559_20221224T015812_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_20221224T020150_20221224T020154_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_20221224T024325_20221224T024649_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_20221224T032041_20221224T033005_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_20221224T033005_20221224T033137_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_20221224T033748_20221224T033930_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_20221224T050056_20221224T050101_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_20221224T050227_20221224T050903_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_20221224T054654_20221224T055352_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_20221224T063624_20221224T063626_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_20221224T063701_20221224T063710_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_20221224T064153_20221224T064725_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_20221224T064726_20221224T064901_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_20221224T071125_20221224T071339_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_20221224T082535_20221224T082825_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_20221224T083039_20221224T083224_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_20221224T083437_20221224T083557_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_20221224T083728_20221224T083845_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_20221224T100021_20221224T100113_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_20221224T101250_20221224T101520_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_20221224T104850_20221224T105056_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_20221224T114057_20221224T114225_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_20221224T114249_20221224T114803_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_20221224T122649_20221224T123026_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_20221224T131620_20221224T131812_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_20221224T132153_20221224T132953_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_20221224T140637_20221224T141018_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_20221224T144742_20221224T145126_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_20221224T150022_20221224T150916_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_20221224T151050_20221224T151137_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_20221224T154608_20221224T154903_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_20221224T164125_20221224T164913_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_20221224T173735_20221224T174334_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_20221224T181422_20221224T181436_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_20221224T182623_20221224T182745_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_20221224T191551_20221224T192112_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_20221224T193516_20221224T193729_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_20221224T195104_20221224T195315_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_20221224T195616_20221224T195725_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221224T195940_20221224T200104_C001	Altimeter Range and Rackscatter () i ality	The Ocean Altimeter Range, SSHA, SWH 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_20221224T213037_20221224T213355_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_20221224T213804_20221224T214326_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
	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_20221224T231626_20221224T232630_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors: 154

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this 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_20221223T232046_20221224T001022_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221224T001022_20221224T010001_C001	Mean Sea Surface (1), Mean 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_20221224T010001_20221224T014937_C001	Mean Sea Surface (1), Mean 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_20221224T014937_20221224T023916_C001	Mean Sea Surface (1), Mean 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_20221224T023916_20221224T032852_C001	Mean Sea Surface (1), Mean 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_20221224T032852_20221224T041830_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_20221224T041830_20221224T050806_C001	Mean Sea Surface (1), Mean 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_20221224T050806_20221224T055745_C001	Mean Sea Surface (1), Mean 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_20221224T055745_20221224T064721_C001	Mean Sea Surface (1), Mean 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_20221224T064721_20221224T073700_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_20221224T073700_20221224T082636_C001	Mean Sea Surface (1), Mean 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_20221224T082636_20221224T091614_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_20221224T091614_20221224T100550_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOP_2_20221224T100550_20221224T105529_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_20221224T105529_20221224T114505_C001	Mean Sea Surface (1), Mean 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_20221224T114505_20221224T123444_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_20221224T123444_20221224T132420_C001	Mean Sea Surface (1), Mean 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_20221224T132420_20221224T141359_C001	Mean Sea Surface (1), Mean 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_20221224T141359_20221224T150335_C001	Mean Sea Surface (1), Mean 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_20221224T150335_20221224T155313_C001	Mean Sea Surface (1), Mean 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_20221224T155313_20221224T164249_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_20221224T164249_20221224T173228_C001	Mean Sea Surface (1), Mean 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_20221224T173228_20221224T182204_C001	Mean Sea Surface (1), Mean 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_20221224T182204_20221224T191142_C001	Mean Sea Surface (1), Mean 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_20221224T191142_20221224T200119_C001	Mean Sea Surface (1), Mean 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_20221224T200119_20221224T205057_C001	Mean Sea Surface (1), Mean 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_20221224T205057_20221224T214033_C001	Mean Sea Surface (1), Mean 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_20221224T214033_20221224T223012_C001	Mean Sea Surface (1), Mean 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_20221224T223012_20221224T231948_C001	Mean Sea Surface (1), Mean 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_20221224T231948_20221225T000927_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 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.

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:

30

28

30

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:

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors	
SIR_IOPM1B	200	200	3	197	0	
SIR_IOPR1B	142	105	2	103	0	
SIR_IOPN1B	105	142	0	142	0	
SIR_IOPM_2	200	200	147	53	0	
SIR_IOPR_2	142	105	43	62	0	
SIR_IOPN_2	105	142	59	83	0	
SIR_IOP_P2P	29	29	0	29	0	

7.1 QCC Errors

Number of QCC reports with errors: 0							
0							

7.2 QCC Warnings

Number of QCC reports with warnings

2230

Total number of occurrences of each warning

	Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF	
Ī	SIR_IOPM1B	197	0	0	0	0	0	0	
	SIR_IOPM_2	0	34	36	0	50	0	43	
	SIR_IOPN1B	100	0	0	0	0	0	0	
	SIR_IOPN_2	0	10	37	4	29	30	17	
	SIR_IOPR1B	138	0	0	0	0	0	0	
	SIR IOPR 2	0	29	46	3	29	24	13	

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	1	28	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	0	0	23	0	33
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	8	0	0	50	0	56	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	23	0	0	7	24	0	4
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	30	11	41	52	30
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	50	0	0	63	32	14

	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
	SIR_IOPM1B	0	0	0	0	0	0	0
	SIR_IOPM_2	34	0	1	0	0	0	0
	SIR_IOPN1B	0	0	0	1	0	0	40
	SIR_IOPN_2	30	29	14	0	0	1	0
	SIR_IOPR1B	0	0	0	0	0	0	142
ľ	CID IODD 1	22	42	0	0	1	1	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOP_2_	14	29	29	6	29	18	29

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_IOP_2_	9	1	18	28	25	12	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR_IOP_2_	19	27	29	19	14	29	
Product Type	-	-	-	-	-	-	-
SIR IOP 2							

Fest Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			

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MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean - NetCDF			
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch			
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample			
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter			
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7.3 Missing QCC Reports

Number of products with missing QCC reports: