

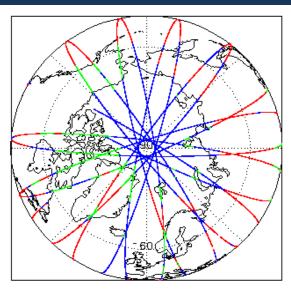
1. Overview

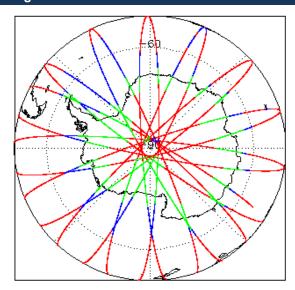
Report Production:	03-Jun-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP)

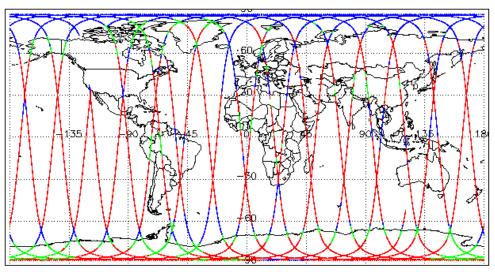
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / In	strument News
30-May-20	None
31-May-20	None
01-Jun-202	1 Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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17

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. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210531T060616_20210531T060834_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20210531T074834_20210531T074911_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20210531T172011_20210531T172229_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210531T124407_20210531T124555_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210531T001714_20210531T001842_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210531T005304_20210531T005830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210531T074405_20210531T074605_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210531T113728_20210531T113905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210531T141602_20210531T142106_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210531T190440_20210531T190532_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T015506_20210531T015637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T060407_20210531T060616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T072815_20210531T073834_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T073835_20210531T073958_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T083100_20210531T083356_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T105624_20210531T105731_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T123925_20210531T124113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T155117_20210531T155622_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T172832_20210531T173825_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210531T195453_20210531T195732_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210531T124650_20210531T125726_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20210531T171908_20210531T171916_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20210531T235917_20210531T235957_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_20210531T001223_20210531T001456_C001	Mean Sea Surface (1), Mean 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_20210531T005304_20210531T005830_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_20210531T015134_20210531T015505_C001	Mean Sea Surface (1), Mean 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_20210531T023302_20210531T023653_C001	Mean Sea Surface (1), Mean 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_20210531T033243_20210531T033426_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T064151_20210531T064314_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T064841_20210531T065155_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T082124_20210531T082238_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T082740_20210531T083059_C001	Mean Sea Surface (1), Mean 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_20210531T100215_20210531T100452_C001	Mean Sea Surface (1), Mean 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_20210531T100645_20210531T101312_C001	Mean Sea Surface (1), Mean 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_20210531T105731_20210531T105852_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_20210531T113951_20210531T114348_C001	Mean Sea Surface (1), Mean 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_20210531T123008_20210531T123020_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T123648_20210531T123752_C001	Mean Sea Surface (1), Mean 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_20210531T131947_20210531T132143_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T133003_20210531T133151_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T145921_20210531T150039_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T164048_20210531T164247_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_20210531T182721_20210531T182839_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T191724_20210531T192049_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210531T195733_20210531T200054_C001	Mean Sea Surface (1), Mean 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_20210531T204708_20210531T204952_C001	Mean Sea Surface (1), Mean 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_20210531T214446_20210531T214616_C001	Mean Sea Surface (1), Mean 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_20210531T222751_20210531T222853_C001	Mean Sea Surface (1), Mean 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_20210531T232209_20210531T232413_C001	Mean Sea Surface (1), Mean 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_20210531T001456_20210531T001714_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20210531T005830_20210531T010529_C001	Mean Sea Surface (1), Mean 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_20210531T011906_20210531T012722_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210531T023653_20210531T024158_C001	Mean Sea Surface (1), Mean 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_20210531T041400_20210531T042033_C001	Mean Sea Surface (1), Mean 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_20210531T055306_20210531T060040_C001	Mean Sea Surface (1), Mean 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_20210531T060956_20210531T061141_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210531T072815_20210531T073835_C001	Mean Sea Surface (1), Mean 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_20210531T073835_20210531T073958_C001	Mean Sea Surface (1), Mean 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_20210531T091042_20210531T091734_C001	Mean Sea Surface (1), Mean 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_20210531T091734_20210531T092155_C001	Mean Sea Surface (1), Mean 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_20210531T105014_20210531T105623_C001	Mean Sea Surface (1), Mean 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_20210531T105624_20210531T105731_C001	Mean Sea Surface (1), Mean 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_20210531T113905_20210531T113951_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20210531T123021_20210531T123109_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210531T123115_20210531T123155_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210531T123218_20210531T123416_C001	Mean Sea Surface (1), Mean 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_20210531T123416_20210531T123647_C001	Mean Sea Surface (1), Mean 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_20210531T141013_20210531T141601_C001	Mean Sea Surface (1), Mean 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_20210531T155117_20210531T155622_C001	Mean Sea Surface (1), Mean 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_20210531T171916_20210531T172010_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210531T172512_20210531T172651_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210531T172832_20210531T173825_C001	Mean Sea Surface (1), Mean 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_20210531T190905_20210531T191724_C001	Mean Sea Surface (1), Mean 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_20210531T204952_20210531T205735_C001	Mean Sea Surface (1), Mean 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_20210531T222854_20210531T223438_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210531T060616_20210531T060834_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20210531T074834_20210531T074911_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20210531T172011_20210531T172229_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

85

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Product CS_OFFL_SIR_IOPM_2_20210530T234801_20210531T000257_C001	Test Failed Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	Description The Ocean Altimeter Range, SSHA, SWH 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_20210531T001104_20210531T001222_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_20210531T001916_20210531T003149_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_20210531T003630_20210531T004820_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_20210531T005049_20210531T005217_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_20210531T012722_20210531T014208_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_20210531T014502_20210531T014940_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_20210531T015018_20210531T015133_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_20210531T015637_20210531T021854_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_20210531T021856_20210531T022302_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_20210531T022521_20210531T023046_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_20210531T025636_20210531T031702_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_20210531T031754_20210531T032114_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_20210531T032511_20210531T032855_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_20210531T032917_20210531T033243_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_20210531T033552_20210531T040243_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_20210531T043258_20210531T043304_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_20210531T043436_20210531T050132_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_20210531T050317_20210531T050809_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_20210531T051535_20210531T054949_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_20210531T060253_20210531T060407_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_20210531T063501_20210531T063623_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_20210531T063823_20210531T064014_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_20210531T065505_20210531T071656_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_20210531T071932_20210531T072814_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_20210531T074130_20210531T074404_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_20210531T080043_20210531T081908_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_20210531T082239_20210531T082739_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_20210531T083356_20210531T090654_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_20210531T090925_20210531T091042_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_20210531T093222_20210531T095516_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_20210531T100452_20210531T100645_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_20210531T101358_20210531T102915_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_20210531T102918_20210531T103108_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_20210531T103550_20210531T104530_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_20210531T110324_20210531T111949_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_20210531T112203_20210531T113639_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_20210531T114348_20210531T114558_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_20210531T114646_20210531T115100_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_20210531T115300_20210531T120511_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_20210531T120524_20210531T120813_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_20210531T121014_20210531T121935_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_20210531T123752_20210531T123835_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_20210531T124650_20210531T125726_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_20210531T130413_20210531T131810_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_20210531T132143_20210531T133002_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_20210531T133235_20210531T134907_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_20210531T135133_20210531T135345_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_20210531T143101_20210531T143417_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.

CO. CHR. BR. (2014 2 2010031110000 2010031110001 CO.) CO. CHR. BR. (2014 2 2010031110002 2010031111000 CO.) CO. CHR. BR. (2014 2 2010031110000 2010031111000 CO.) CO. CHR. BR. (2014 2 20100311110000 CO.) CO. CHR. BR. (2014 2 2010031110000 C	CS_OFFL_SIR_IOPM_2_20210531T143430_20210531T145725_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.
Section Coulty Col. DRIA SIRI, DRIAD_20210011110004_201011100040_20101 Col. DRIA SIRI, DRIAD_20210011110004_202100111100040_20101 Col. DRIAD_20210011100040_202100111100011_2010 Col. DRIAD_20210011100040_202100111100040_20100110011000110	CS_OFFL_SIR_IOPM_2_20210531T150040_20210531T150239_C001		
CB_OFF_SRI_JOPN_2_2010031116084_2010031116084_00001 CB_OFF_SRI_JOPN_2_2010031116084_2010031116081_00001 CB_OFF_SRI_JOPN_2_2010031116084_2010031116084_00001 CB_OFF_SRI_JOPN_2_2010031116084_	CS_OFFL_SIR_IOPM_2_20210531T150323_20210531T150827_C001		
CB_OPT_SRI_OPM_2_20210531T16050_0010531T16050_0010531T16050_001053 CB_OPT_SRI_OPM_2_20210531T16050_0010531T16050_001053 CB_OPT_SRI_OPM_2_20210531T16050_0010531T1605	CS_OFFL_SIR_IOPM_2_20210531T151208_20210531T153649_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
LOGOFFE, SRI, IDMS_20010311110500_0010311110000_00110111110000_00110111110000_0011011	CS_OFFL_SIR_IOPM_2_20210531T160840_20210531T163613_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OPFL_SRI_IOPM_2_2021003111804B_	CS_OFFL_SIR_IOPM_2_20210531T164247_20210531T164849_C001		
OB_OFFL_SIR_IOPM_2_20210311712939_20210531710209_20	CS_OFFL_SIR_IOPM_2_20210531T165036_20210531T171906_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Caulity COCO Allmeter Range and Backscater Quality Flega have been after control or correct control CS. OFFL_SIR_IOPM_2_202105311182157_20210531118276_0001 CS. OFFL_SIR_IOPM_2_20210531118206_20210531118206_0001 CS. OFFL_SIR_IOPM_2_20210531118206_000183118301_0001 CS. OFFL_SIR_IOPM_2_20210531118002_000183118301_0001 CS. OFFL_SIR_IOPM_2_20210531118002_000183118301_0001 CS. OFFL_SIR_IOPM_2_20210531118002_000183118301_0001 CS. OFFL_SIR_IOPM_2_202105311180040_0001 CS. OFFL_SIR_IOPM_2_202105311100040_0001331118000_0001 CS. OFFL_SIR_IOPM_2_202105311100040_0001331118000_0001 CS. OFFL_SIR_IOPM_2_	CS_OFFL_SIR_IOPM_2_20210531T172651_20210531T172832_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM 2_20210531T182046_20210531T183515_C001 CS_OFFL_SIR_IOPM 2_20210531T182046_20210531T184136_C001 CS_OFFL_SIR_IOPM 2_20210531T185055_20210531T184136_C001 CS_OFFL_SIR_IOPM 2_20210531T185055_20210531T185045_C001 CS_OFFL_SIR_IOPM 2_20210531T185055_20210531T185045_C001 CS_OFFL_SIR_IOPM 2_20210531T180447_20210531T180445_C001 CS_OFFL_SIR_IOPM 2_20210531T190445_20210531T190445_C001 CS_OFFL_SIR_IOPM 2_20210531T190445_20210531T190445_C001 CS_OFFL_SIR_IOPM 2_20210531T190445_C001 CS_OFFL_SIR_IOPM 2_20210531T190455_20210531T190455_C001 CS_OFFL_SIR_IOPM 2_20210531T190455_20210531T190455_C001 CS_OFFL_SIR_IOPM 2_20210531T190455_20210531T190455_C001 CS_OFFL_SIR_IOPM 2_20210531T190455_20210531T190455_C001 CS_OFFL_SIR_IOPM 2_20210531T190552_20210531T190555_C001 CS_OFFL_SIR_IOPM 2_20210531T190552_20210531T190555_C001 CS_OFFL_SIR_IOPM 2_20210531T190552_20210531T190555_C001 CS_OFFL_SIR_IOPM 2_20210531T190552_20210531T190555_C001 CS_OFFL_SIR_IOPM 2_20210531T190552_20210531T190555_C001 CS_OFFL_SIR_IOPM 2_20210531T190552_20210531T190555_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T200614_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T200614_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T200614_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T200614_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T200614_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T200614_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T202750_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T202750_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T202750_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T202750_C001 CS_OFFL_SIR_IOPM 2_20210531T20006_20210531T202750_C001 CCS_OFFL_SIR_IOPM 2_20210531T20207_20210531T202750_C001 CCS_OFFL_SIR_IOPM 2_20210531T20207_20210531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T20207_20010531T2	CS_OFFL_SIR_IOPM_2_20210531T174149_20210531T181511_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and backscater Quality, OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210531T183805_20210531T184156_C001 OCOG Altimeter Range, SIHA, SWH and Backscater Quality, OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscater Quality Flags have been	CS_OFFL_SIR_IOPM_2_20210531T182157_20210531T182721_C001		
Backcaster Quality Co-gorFIL_SIR_JOPM_2_20210531T18547_20210531T185543_C001 Ocean Alimeter Range and Backscaster Quality Flags have been set for one or more records. CS_OFFIL_SIR_JOPM_2_20210531T190425_20210531T190440_C001 CS_OFFIL_SIR_JOPM_2_20210531T190425_20210531T190905_C001 Ocean Alimeter Range Quality, OCOG Alimeter Range and Backscaster Quality Flags have been set for one or more records. CS_OFFIL_SIR_JOPM_2_20210531T190532_20210531T190905_C001 Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. CS_OFFIL_SIR_JOPM_2_20210531T190532_20210531T190905_C001 Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range Quality, OCOG Alimeter Range Quality, OCOG Alimeter Range Quality, OCOG Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSHA, SWH and Backscaster Quality Flags have been set for one or more records. Ocean Alimeter Range SSH	CS_OFFL_SIR_IOPM_2_20210531T182946_20210531T183515_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210531T190425_20210531T190440_C001 CS_OFFL_SIR_IOPM_2_20210531T190425_20210531T190440_C001 CS_OFFL_SIR_IOPM_2_20210531T190425_20210531T190400_C001 CS_OFFL_SIR_IOPM_2_20210531T190532_20210531T190400_C001 CS_OFFL_SIR_IOPM_2_20210531T190532_20210531T190400_C001 CS_OFFL_SIR_IOPM_2_20210531T190532_20210531T190400_C001 CS_OFFL_SIR_IOPM_2_20210531T190532_20210531T190400_C001 CS_OFFL_SIR_IOPM_2_20210531T190532_20210531T190400_C001 CS_OFFL_SIR_IOPM_2_20210531T190532_20210531T190453_C001 CS_OFFL_SIR_IOPM_2_20210531T190540_C001 CS_OFFL_SIR_IOPM_2_20210531T200200_20210531T200614_C001 CS_OFFL_SIR_IOPM_2_20210531T200200_20210531T200614_C001 CS_OFFL_SIR_IOPM_2_20210531T200200_20210531T200750_C001 CS_OFFL_SIR_IOPM_2_20210531T200307_20210531T200750_C001 CS_OFFL_SIR_IOPM_2_20210531T200307_20210531T200750_C001 CS_OFFL_SIR_IOPM_2_20210531T200307_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T200500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T20750_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_C001 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205000_C001 CC_OCA Allimeter Rang	CS_OFFL_SIR_IOPM_2_20210531T183805_20210531T184136_C001		
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210531T100432_20210531T100005_C001 CS_OFFL_SIR_IOPM_2_20210531T100532_20210531T100005_C001 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192059_C001 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192059_C001 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192059_C001 CS_OFFL_SIR_IOPM_2_20210531T20006_20210531T200614_C001 CS_OFFL_SIR_IOPM_2_20210531T200002_20210531T200150_C001 CS_OFFL_SIR_IOPM_2_20210531T200002_20210531T200150_C001 CS_OFFL_SIR_IOPM_2_20210531T200002_20210531T202125_C001 CS_OFFL_SIR_IOPM_2_20210531T200002_20210531T202105 CS_OFFL_SIR_IOPM_2_20210531T200002_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T20307_20210	CS_OFFL_SIR_IOPM_2_20210531T185447_20210531T185543_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192992_CO01 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192992_CO01 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192992_CO01 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192992_CO01 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T1925453_CO01 CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192051_CO01 CS_OFFL_SIR_IOPM_2_20210531T200206_20210531T200514_CO01 CS_OFFL_SIR_IOPM_2_20210531T200206_20210531T200514_CO01 CS_OFFL_SIR_IOPM_2_20210531T200206_20210531T202125_CO01 CS_OFFL_SIR_IOPM_2_20210531T200207_20210531T202125_CO01 CS_OFFL_SIR_IOPM_2_20210531T200500_20210531T202155_CO01 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_CO01 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_CO01 CS_OFFL_SIR_IOPM_2_20210531T205500_20210531T205500_CO01 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T213515_CO01 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T210590_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T210590_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T21059_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T210590_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T210590_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T210590_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T212500_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T212500_CO01 CS_OFFL_SIR_IOPM_2_20210531T215004_20210531T222510_CO01 CS_OFFL_SIR_IOPM_2_20210531T22538_20210531T222510_CO01 CS_OFFL_SIR_IOPM_2_20210531T225040_CO01 CS_OFFL_SIR_IOPM_2_20210531T225040_CO01 CS_OFFL_SIR_IOPM_2_20210531T225040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2255040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2505040_CO01 CS_OFFL_SIR_IOPM_2_20210531T2505040_CO01 CS_OFFL_S	CS_OFFL_SIR_IOPM_2_20210531T190425_20210531T190440_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range 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_20210531T200206_20210531T200614_C001 CS_OFFL_SIR_IOPM_2_20210531T200902_20210531T20215_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T213064_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T213064_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T213064_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T225540_C001 Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25521_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25551_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25551_20210531T225540_C001 CS_OFFL_SIR_IOPM_2_20210531T25551_20210531T25540_C001 CS_OFFL_SIR_IOPM_2_20210531T2555	CS_OFFL_SIR_IOPM_2_20210531T190532_20210531T190905_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 set for one or more records. CS_OFFL_SIR_IOPM_2_20210531T200206_20210531T200614_C001 CS_OFFL_SIR_IOPM_2_20210531T200902_20210531T202125_C001 CS_OFFL_SIR_IOPM_2_20210531T200902_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T2225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T2225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T22551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T22551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T22551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T22551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T22551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222551_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T22551_20210531T225040_C00	CS_OFFL_SIR_IOPM_2_20210531T192049_20210531T192959_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210531T200902_20210531T202155_C001 CS_OFFL_SIR_IOPM_2_20210531T202075_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T214059_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T225538_20210531T2225751_C001 CS_OFFL_SIR_IOPM_2_20210531T225538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T225538_20210531T2225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T2225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T2225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T2225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T2225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T2255040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T22545_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T2255040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T2255040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS	CS_OFFL_SIR_IOPM_2_20210531T193244_20210531T195453_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001 CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T214059_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T214059_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T22538_20210531T222510_C001 CS_OFFL_SIR_IOPM_2_20210531T225238_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225258_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSH	CS_OFFL_SIR_IOPM_2_20210531T200206_20210531T200614_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T214059_C001 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T214059_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T22538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T22538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T22538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225040_C	CS_OFFL_SIR_IOPM_2_20210531T200902_20210531T202125_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_20210531T213604_20210531T214059_C001 CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T214059_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T22251_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T222521_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 CCG_Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20210531T225040_C001 CCG_Altimeter	CS_OFFL_SIR_IOPM_2_20210531T202307_20210531T202750_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001 Cs_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 Cs_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 Cs_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 Cs_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 Cs_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 Cs_OFFL_SIR_IOPM_2_20210531T222538_20210531T225040_C001 Cs_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001 Cs_OFFL_SIR_IOPM_2_20210531T225521_20210531T225040_C001 Cs_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 Backscatter Quality for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. Cs_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001 Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210531T205950_20210531T213315_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210531T22521_20210531T222319_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001 CS_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001 CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 COEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 COEAN Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 COEAN Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20210531T213604_20210531T214059_C001		
Backscatter Quality Go one or more records. CS_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001 Backscatter Quality Go one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been a	CS_OFFL_SIR_IOPM_2_20210531T215201_20210531T222319_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter	CS_OFFL_SIR_IOPM_2_20210531T222538_20210531T222751_C001		
CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20210531T224237_20210531T225040_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20210531T225521_20210531T231245_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20210531T231445_20210531T231959_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_20210531T233001_20210531T234342_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_20210531T234656_20210531T235843_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_20210531T032243_20210531T032511_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210531T054950_20210531T055106_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_20210531T022303_20210531T022521_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_20210531T071656_20210531T071931_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_20210531T111949_20210531T112202_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_20210531T124555_20210531T124650_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_20210531T165020_20210531T165036_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Test Failed	Description
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG 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.
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.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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.
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.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG 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.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_IOPN_2_20210531T074811_20210531T074834_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OS OEEI SID IODN 3 303405347574049 300405347575049 0004	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20210531T074912_20210531T075010_C001	OCOG Backscatter Quality	more records.
CS_OFFL_SIR_IOPN_2_20210531T075752_20210531T080043_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_20210531T100645_20210531T101312_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_20210531T110138_20210531T110251_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_20210531T113728_20210531T113905_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_20210531T113951_20210531T114348_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_20210531T121936_20210531T122114_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_20210531T125904_20210531T130412_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_20210531T131947_20210531T132143_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_20210531T135647_20210531T140034_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_20210531T140112_20210531T140203_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_20210531T141602_20210531T142106_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_20210531T150240_20210531T150323_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_20210531T150828_20210531T151105_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_20210531T153649_20210531T153748_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_20210531T173825_20210531T174149_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_20210531T181834_20210531T182156_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_20210531T182721_20210531T182839_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_20210531T184136_20210531T184258_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_20210531T195733_20210531T200054_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_20210531T200614_20210531T200738_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_20210531T202751_20210531T203115_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_20210531T204708_20210531T204952_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_20210531T231308_20210531T231445_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_20210531T232209_20210531T232413_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	I
CS_OFFL_SIR_IOPR_2_20210531T001456_20210531T001714_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210531T001842_20210531T001916_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_20210531T004821_20210531T004906_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_20210531T005830_20210531T010529_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_20210531T011906_20210531T012722_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_20210531T014209_20210531T014248_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_20210531T014940_20210531T014944_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_20210531T015506_20210531T015637_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_20210531T022303_20210531T022521_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_20210531T023653_20210531T024158_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_20210531T024237_20210531T024441_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_20210531T032115_20210531T032243_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_20210531T041400_20210531T042033_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_20210531T042033_20210531T042229_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_20210531T042252_20210531T042523_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_20210531T051329_20210531T051534_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_20210531T055306_20210531T060040_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_20210531T060045_20210531T060252_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_20210531T060407_20210531T060616_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_20210531T061248_20210531T061515_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_20210531T064015_20210531T064151_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_20210531T072815_20210531T073835_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_20210531T073835_20210531T073958_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_20210531T074606_20210531T074752_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_20210531T075010_20210531T075204_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_20210531T083100_20210531T083356_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_20210531T090654_20210531T090924_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_20210531T091042_20210531T091734_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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_20210531T091734_20210531T092155_C001	PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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_20210531T095517_20210531T100215_C001	PLRM 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_20210531T101312_20210531T101357_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_20210531T103109_20210531T103550_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_20210531T104530_20210531T104724_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_20210531T105014_20210531T105623_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_20210531T105624_20210531T105731_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_20210531T111949_20210531T112202_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_20210531T120814_20210531T120951_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_20210531T123002_20210531T123008_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_20210531T123416_20210531T123647_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_20210531T124320_20210531T124406_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_20210531T124555_20210531T124650_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_20210531T131810_20210531T131947_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_20210531T140858_20210531T141013_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_20210531T141013_20210531T141601_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_20210531T142112_20210531T142404_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_20210531T142946_20210531T143101_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_20210531T145725_20210531T145920_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_20210531T154710_20210531T154910_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_20210531T155117_20210531T155622_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_20210531T163614_20210531T163844_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_20210531T172512_20210531T172651_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_20210531T172832_20210531T173825_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_20210531T185544_20210531T185922_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.	or one or
CS_OFFL_SIR_IOPR_2_20210531T190206_20210531T190425_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set in more records.	or one or
CS_OFFL_SIR_IOPR_2_20210531T190905_20210531T191724_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 PLRM and Backscatter Quality PLRM and Backscatter Quality Flags have to one or more records.	
CS_OFFL_SIR_IOPR_2_20210531T193000_20210531T193244_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 PLRM and Backscatter Quality PLRM and Backscatter Quality Flags have to one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality Flags have for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality Flags have for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality Flags have to one or more records.	
CS_OFFL_SIR_IOPR_2_20210531T204952_20210531T205735_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 PLRM and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality Flags have for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have the ocog Altimeter Range and Backscatter Quality Flags have the ocog Altimeter Ra	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have to one or more records.	
CS_OFFL_SIR_IOPR_2_20210531T223446_20210531T223610_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records.	or one or
CS_OFFL_SIR_IOPR_2_20210531T232414_20210531T233001_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and He oCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	
CS_OFFL_SIR_IOPR_2_20210531T234342_20210531T234656_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.	or one or

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

202

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

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 6

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 15

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:

0

6.4 P2P Auxiliary Correction Error Check

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

0

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:

29

Product	Test Failed	Description
	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_IOP_220210531T001033_20210531T010011_C001	Topography (1), Total Geocentric Ocean Tide (GOT)	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210531T010011_20210531T014948_C001	Mean Sea Surface (1), Mean 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_220210531T014948_20210531T023926_C001	Mean Sea Surface (1), Mean 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_220210531T023926_20210531T032903_C001	Mean Sea Surface (1), Mean 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_220210531T032903_20210531T041841_C001	Mean Sea Surface (1), Mean 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_220210531T041841_20210531T050818_C001	Mean Sea Surface (1), Mean 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_220210531T050818_20210531T055756_C001	Mean Sea Surface (1), Mean 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_220210531T055756_20210531T064732_C001	Mean Sea Surface (1), Mean 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_220210531T064732_20210531T073710_C001	Mean Sea Surface (1), Mean 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_220210531T073710_20210531T082647_C001	Mean Sea Surface (1), Mean 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_220210531T082647_20210531T091625_C001	Mean Sea Surface (1), Mean 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_220210531T091625_20210531T100601_C001	Mean Sea Surface (1), Mean 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_220210531T100601_20210531T105539_C001	Mean Sea Surface (1), Mean 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_220210531T105539_20210531T114516_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_220210531T114516_20210531T123454_C001	Mean Sea Surface (1), Mean 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_220210531T123454_20210531T132431_C001	Mean Sea Surface (1), Mean 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_220210531T132431_20210531T141409_C001	Mean Sea Surface (1), Mean 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_220210531T141409_20210531T150346_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_220210531T150346_20210531T155324_C001	Mean Sea Surface (1), Mean 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_220210531T155324_20210531T164300_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_220210531T164300_20210531T173238_C001	Mean Sea Surface (1), Mean 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_220210531T173238_20210531T182215_C001	Mean Sea Surface (1), Mean 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_220210531T182215_20210531T191153_C001	Mean Sea Surface (1), Mean 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_220210531T191153_20210531T200130_C001	Mean Sea Surface (1), Mean 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_220210531T200130_20210531T205107_C001	Mean Sea Surface (1), Mean 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_220210531T205107_20210531T214044_C001	Mean Sea Surface (1), Mean 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_220210531T214044_20210531T223022_C001	` //	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	
CS_OFFL_SIR_IOP_220210531T223022_20210531T231959_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	
	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	

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210531T055756_20210531T064732_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220210531T073710_20210531T082647_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220210531T164300_20210531T173238_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 30

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 30

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 28

P2P Retracking Flags PLRM

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

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

Number of products with errors: 3

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	150	150	5	145	0
SIR_IOPR1B	122	94	0	94	0
SIR_IOPN1B	94	122	0	122	0
SIR_IOPM_2	150	150	95	55	0
SIR_IOPR_2	122	94	38	56	0
SIR_IOPN_2	94	122	31	91	0
SIR_IOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrences of each error

7.2 QCC Warnings

Number of QCC reports with warnings

2216

0

Total number of occurrences of each warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOPM1B	145	0	0	0	0	0	0
SIR_IOPM_2	0	48	46	1	43	0	29
SIR_IOPN1B	92	0	0	0	0	0	0
SIR_IOPN_2	0	8	28	4	25	23	19
SIR_IOPR1B	117	0	0	0	0	0	0
SIR_IOPR_2	0	43	51	0	35	35	18

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	42	0	0	0	0	33
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	0	22	0	28	0
SIR_IOPR1B	0	0	0	0	0	0	0

SIR_IOPR_2	1	0	53	0	60	0	0
Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR IOPM1B	0	0	0	0	0	0	0
SIR IOPM 2	0	0	3	30	0	4	42
SIR IOPN1B	0	0	0	0	0	0	0
SIR IOPN 2	0	24	14	39	46	28	27
SIR IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	51	0	4	75	44	12	42

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_IOPM1B	0	0	0	0	0	0	
SIR_IOPM_2	0	3	0	0	0	0	
SIR_IOPN1B	0	0	0	0	43	1	
SIR_IOPN_2	25	14	0	0	0	0	
SIR_IOPR1B	0	0	0	0	122	6	
SIR_IOPR_2	60	5	1	3	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR IOP 2	8		29	5	29	18	29

Ī	Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
Ī	SIR IOP 2	1	19	29	22	17	29	18

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•
SIR_IOP_2_	23	29	18	18	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				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter				

7.3 Missing QCC Reports