

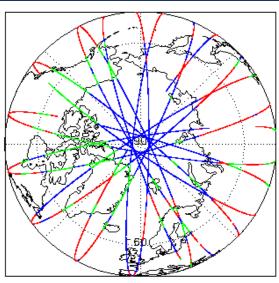
1. Overview

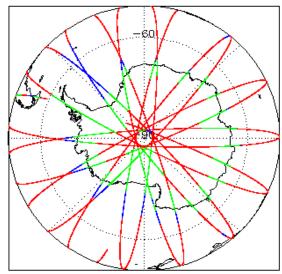
Report Production:	18-Feb-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

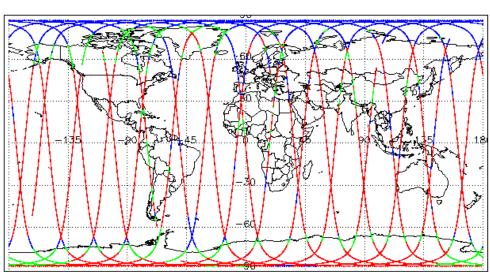
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

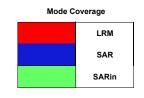
Mission / Instru	ment News
14-Feb-2021	None
15-Feb-2021	None
16-Feb-2021	SIRAL unavailability from 12:38:00 until 12:52:02

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

0

lumber of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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: 19

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210215T062549_20210215T062908_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210215T063031_20210215T063741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210215T161816_20210215T162853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T000452_20210215T000555_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T042151_20210215T042347_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T064112_20210215T064624_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T095646_20210215T100141_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T115953_20210215T120137_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T165053_20210215T165217_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T172525_20210215T173143_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T182515_20210215T182721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210215T231734_20210215T231832_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210215T002041_20210215T002114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210215T013801_20210215T014116_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210215T045720_20210215T045924_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210215T045925_20210215T050529_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210215T092212_20210215T092323_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210215T180102_20210215T180440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210215T182721_20210215T182820_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:

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 Corection, 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210215T015710_20210215T015749_C001	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 Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPM_2_20210215T052450_20210215T053515_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_20210215T083344_20210215T083446_C001	Mean Sea Surface (1), Mean 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_20210215T005713_20210215T010035_C001	Mean Sea Surface (1), Mean 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_20210215T014742_20210215T014923_C001	Mean Sea Surface (1), Mean 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_20210215T024450_20210215T024559_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_20210215T032723_20210215T032830_C001	Mean Sea Surface (1), Mean 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_20210215T042151_20210215T042347_C001	Mean Sea Surface (1), Mean 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_20210215T050529_20210215T050745_C001	Mean Sea Surface (1), Mean 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_20210215T064112_20210215T064624_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_20210215T073102_20210215T073401_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_20210215T074030_20210215T074319_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_20210215T100920_20210215T100955_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_20210215T101110_20210215T101228_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_20210215T113717_20210215T113843_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_20210215T123648_20210215T123953_C001	Mean Sea Surface (1), Mean 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_20210215T140951_20210215T141259_C001	Mean Sea Surface (1), Mean 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_20210215T141550_20210215T141931_C001	Mean Sea Surface (1), Mean 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_20210215T155028_20210215T155302_C001	Mean Sea Surface (1), Mean 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_20210215T164538_20210215T164657_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_20210215T182515_20210215T182721_C001	Mean Sea Surface (1), Mean 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_20210215T190751_20210215T190926_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_20210215T200427_20210215T200912_C001	Mean Sea Surface (1), Mean 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_20210215T205610_20210215T205840_C001	Mean Sea Surface (1), Mean 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_20210215T214500_20210215T215059_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_20210215T222708_20210215T223100_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_20210215T231734_20210215T231832_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_20210215T000754_20210215T001640_C001	Mean Sea Surface (1), Mean 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_20210215T014923_20210215T015652_C001	Mean Sea Surface (1), Mean 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_20210215T032830_20210215T032917_C001	Mean Sea Surface (1), Mean 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_20210215T032933_20210215T032938_C001	Mean Sea Surface (1), Mean 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_20210215T044315_20210215T044529_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20210215T050746_20210215T051429_C001	Mean Sea Surface (1), Mean 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_20210215T064624_20210215T065237_C001	Mean Sea Surface (1), Mean 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_20210215T082448_20210215T083344_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20210215T100141_20210215T100920_C001	Mean Sea Surface (1), Mean 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_20210215T114111_20210215T114743_C001	Mean Sea Surface (1), Mean 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_20210215T114743_20210215T115046_C001	Mean Sea Surface (1), Mean 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_20210215T131925_20210215T132643_C001	Mean Sea Surface (1), Mean 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_20210215T132643_20210215T132906_C001	Mean Sea Surface (1), Mean 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_20210215T133321_20210215T133706_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_20210215T150059_20210215T150541_C001	Mean Sea Surface (1), Mean 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_20210215T150541_20210215T150658_C001	Mean Sea Surface (1), Mean 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_20210215T163908_20210215T164422_C001	Mean Sea Surface (1), Mean 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_20210215T164422_20210215T164538_C001	Mean Sea Surface (1), Mean 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_20210215T182057_20210215T182514_C001	Mean Sea Surface (1), Mean 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_20210215T195642_20210215T195700_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_20210215T195700_20210215T200427_C001	Mean Sea Surface (1), Mean 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_20210215T213501_20210215T214500_C001	Mean Sea Surface (1), Mean 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_20210215T230736_20210215T230914_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_20210215T231832_20210215T232620_C001	Mean Sea 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:

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.

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210215T000556_20210215T000754_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210215T002114_20210215T005519_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_20210215T010035_20210215T010549_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_20210215T010724_20210215T012731_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_20210215T015710_20210215T015749_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_20210215T015918_20210215T021943_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_20210215T021948_20210215T023313_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_20210215T023617_20210215T024036_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_20210215T024054_20210215T024449_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_20210215T024644_20210215T032312_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_20210215T032436_20210215T032722_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_20210215T034252_20210215T035013_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_20210215T035455_20210215T035606_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_20210215T035608_20210215T035842_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_20210215T035952_20210215T041238_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_20210215T041417_20210215T041935_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_20210215T041954_20210215T042151_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_20210215T043009_20210215T044315_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_20210215T044529_20210215T045720_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_20210215T052450_20210215T053515_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_20210215T053655_20210215T055155_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_20210215T055344_20210215T055847_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_20210215T060720_20210215T060818_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_20210215T061501_20210215T061927_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_20210215T063031_20210215T063741_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_20210215T065830_20210215T065949_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_20210215T070917_20210215T073102_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_20210215T073401_20210215T073805_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_20210215T074412_20210215T081903_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.

Manual Alloward Paul St.	CS_OFFL_SIR_IOPM_2_20210215T084617_20210215T091038_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
Windows Finging and Biolococine Coulty	CS OFFL SIR IOPM 2 20210215T092323 20210215T095646 C001	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CB_OFFL_SR_JOPFL_2_201615116141_2016151114150.0581 CB_OFFL_SR_JOPFL_2_201615116141_201615116141_2016151161610 CB_OFFL_SR_JOPFL_2_201615116141_2016151161610 CB_OFFL_SR_JOPFL_2_201615116141_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161614_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_2016151161610 CB_OFFL_SR_JOPFL_2_2016151161612_20161616161610 CB_OFFL_SR_JOPFL_2_2016151161612_20161616161610 CB_OFFL_SR_JOPFL_2_2016151161612_20161616161610 CB_OFFL_SR_JOPFL_2_2016151161612_20161616161610 CB_OFFL_SR_JOPFL_2_2016151161612_20161616161610 CB_OFFL_SR_JOPFL_2_20161511616112_2016161616161616161616161616161616161616			
Allement Florage and Bostocomter Loads by effect or or or more records. Observation of the Company State (1998) 1994 and bestocome records. Observation of the Company State (1998) 1994 and bestocome country florage transport	GS_GTTL_GHK_GPWL_Z_202102131102000_202102131102103_0001	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CB_OPT_SR_OPT_2_7201015T10034_2011015T100506_0011 CB_OPT_SR_OPT_2_72011015T10034_2011015T100506_0011 C	CS_OFFL_SIR_IOPM_2_20210215T102141_20210215T104119_C001	Altimeter Range and Backscatter Quality	set for one or more records.
Content	CS_OFFL_SIR_IOPM_2_20210215T104344_20210215T105018_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_JOPAL_2_2010015110078_201015111008_201015113098_COLD Allerine Reging of bill debasterie Caulity (COCS) Allerine Reging of bill debaste	CS_OFFL_SIR_IOPM_2_20210215T105155_20210215T105959_C001		
CS_OFFL_SIR_JOPM_2_20210215T12003_20210215T12004_2010 CS_OFFL_SIR_JOPM_2_20210215T12004_20210215T12004_2010 CS_OFFL_SIR_JOPM_2_20210215T12004_201011114004_20101 CS_OFFL_SIR_JOPM_2_20210215T12004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T12004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T12004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T12004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T12004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T12004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T13004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T13004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T13004_20101114004_20101 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13004_20210215T13004_2001 CS_OFFL_SIR_JOPM_2_20210215T13	CS_OFFL_SIR_IOPM_2_20210215T110228_20210215T113717_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Galacteater Causily, COCG. Allineder Range and Backscater Causily Flags have been set to core or once records. CS_OFFL_SIR_LOPAL_2_20210215T120131_20210215T120484_C0001 CS_OFFL_SIR_LOPAL_2_20210215T120131_20210215T130502_C0001 CS_OFFL_SIR_LOPAL_2_20210215T120131_20210015T130502_C0001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T130502_C0001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T130502_C0001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T130502_C0001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T13077_C001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T13077_C001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T13077_C001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T13077_C001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T13077_C001 CS_OFFL_SIR_LOPAL_2_20210215T13077_20210015T13077_C001 CS_OFFL_SIR_LOPAL_2_20210215T13077_C0010 CS_OFFL_SIR_LOPAL_2_20210215T13077_C00105T13077_C0010 CS_OFFL_SIR_LOPAL_2_20210215T13077_C00105	CS_OFFL_SIR_IOPM_2_20210215T122005_20210215T122009_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Cuality CS_OFFL_SIR_IOPM_2_202102151132412_20210215113002_C001 Altmeter Range and Backscatter Cuality Flags have been Attender Range and Backscatter Cuality Flags have been at 50 company flags have been Attender Range SSHA, SWH and Backscatter Cuality Flags have been at 50 company flags have	CS_OFFL_SIR_IOPM_2_20210215T122022_20210215T122957_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and feach-caster Quality, COCG Allimeter Range and Backscater Quality Flags have been Allimeter Range and Backscater Quality Flags have been Allimeter Range and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210215T13021_02210215T13321_0001 CS_OFFL_SIR_JOPM_2_20210215T130417_20210215T133532_0001 CS_OFFL_SIR_JOPM_2_20210215T130417_20210215T133533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T130533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T130533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T130533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T130533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T130533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T130533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T130533_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T14004_0001 CS_OFFL_SIR_JOPM_2_20210215T130407_20210215T14004_0001 CS_OFFL_SIR_JOPM_2_20210215T14050_00010215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T140047_20210215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T140047_20210215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T140047_20210215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T140047_20210215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T140047_20210215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T140047_20210215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T140047_20210215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T151000_00010215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T151000_00010215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T151000_00010215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T151000_00010215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T151000_00010215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T151000_00010215T14000_0001 CS_OFFL_SIR_JOPM_2_20210215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_00010215T151000_000100010000000000000000000000	CS_OFFL_SIR_IOPM_2_20210215T123131_20210215T123648_C001		
and backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been addressed to come or more records. CS_OFFL_SIR_JOPM_2_20210215T13021_20210215T133321_0001 CS_OFFL_SIR_JOPM_2_20210215T13021_20210215T133321_0001 CS_OFFL_SIR_JOPM_2_20210215T134047_20210215T134542_0001 CS_OFFL_SIR_JOPM_2_20210215T134042_20210215T135333_0001 CS_OFFL_SIR_JOPM_2_20210215T134042_20210215T135333_0001 CS_OFFL_SIR_JOPM_2_20210215T134042_20210215T135333_0001 CS_OFFL_SIR_JOPM_2_20210215T134042_20210215T135333_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_20210215T135333_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_20210215T135333_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_20210215T135333_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_20210215T134004_0001 CS_OFFL_SIR_JOPM_2_20210215T135540_0001 CS_OFFL_SIR_JOPM_2_20210215T135540_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_0001 CS_OFFL_SIR_JOPM_2_20210215T134504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T13504_0001 CS_OFFL_SIR_JOPM_2_20210215T15000_0001 CS_OFFL_SIR_JOPM_2_20210215T15000_0001 CS_OFFL_SIR_JOPM_2_20210215T15000_0001 CS_OFFL_SIR_JOPM_2_20210215T15000_0001 CS_OFFL_SIR_JOPM_2_20210215T15000_0001 CS_OFFL_SIR_JOPM_2_20210215T150001 CS_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T150001 CC_OFFL_SIR_JOPM_2_20210215T160001 CC_OFFL_SIR_JOP	CS_OFFL_SIR_IOPM_2_20210215T124213_20210215T130502_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20210215T13021_20210215T133321_C001 CS_OFFL_SIR_JOPM_2_20210215T134804_20210215T134542_C001 CS_OFFL_SIR_JOPM_2_20210215T134804_20210215T134542_C001 CS_OFFL_SIR_JOPM_2_20210215T134804_20210215T135353_C001 CS_OFFL_SIR_JOPM_2_20210215T134804_20210215T135353_C001 CS_OFFL_SIR_JOPM_2_20210215T134804_20210215T135353_C001 CS_OFFL_SIR_JOPM_2_20210215T134804_20210215T135353_C001 CS_OFFL_SIR_JOPM_2_20210215T134804_20210215T140004_C001 CS_OFFL_SIR_JOPM_2_20210215T141255_0220215T140004_C001 CS_OFFL_SIR_JOPM_2_20210215T141255_0220215T141549_C001 CS_OFFL_SIR_JOPM_2_20210215T141255_0220215T144504_C001 CS_OFFL_SIR_JOPM_2_20210215T14255_0220215T144504_C001 CS_OFFL_SIR_JOPM_2_20210215T14255_0220215T144504_C001 CS_OFFL_SIR_JOPM_2_20210215T1425T_0220215T145541_C001 CS_OFFL_SIR_JOPM_2_20210215T145047_20210215T145118_C001 CS_OFFL_SIR_JOPM_2_20210215T145047_20210215T145451_C001 CS_OFFL_SIR_JOPM_2_20210215T145047_20210215T14554_C001 CS_OFFL_SIR_JOPM_2_20210215T151114_20210215T15118_C001 CS_OFFL_SIR_JOPM_2_20210215T151106_020210215T151585_C001 CS_OFFL_SIR_JOPM_2_20210215T15106_020210215T151585_C001 CS_OFFL_SIR_JOPM_2_20210215T15106_020210215T151585_C001 CS_OFFL_SIR_JOPM_2_20210215T15106_020210215T151585_C001 CS_OFFL_SIR_JOPM_2_20210215T15106_020210215T151585_C001 CS_OFFL_SIR_JOPM_2_20210215T15106_020210215T151585_C001 CS_OFFL_SIR_JOPM_2_20210215T15106_020210215T151585_C001 CS_OFFL_SIR_JOPM_2_20210215T15106_020210215T15160610_C001 CS_OFFL_SIR_JOPM_2_20210215T1506128_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_JOPM_2_20210215T160702_20210215T160610_C001 CS	CS_OFFL_SIR_IOPM_2_20210215T130747_20210215T131717_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210215T134804_20210215T135353_C001 CS_OFFL_SIR_IOPM_2_20210215T134804_20210215T140004_C001 CS_OFFL_SIR_IOPM_2_20210215T135540_20210215T140004_C001 CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T140004_C001 CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T141450_C001 CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T141450_C001 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T141450_C001 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T145480_C001 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T145480_C001 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T145480_C001 CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T145414_C001 CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T145414_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T1511853_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T1511853_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T15685_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T15685_C001 CS_OFFL_SIR_IOPM_2_20210215T15100_2_20210215T15685_C001 CS_OFFL_SIR_IOPM_2_20210215T1500_2_20210215T15685_C001 CS_OFFL_SIR_IOPM_2_20210215T1500_2_20210215T160010_C001 CS_OFFL_SIR_IOPM_2_20210215T160012_20210215T160010_C001 CS_OFFL_SIR_IOPM_2_20210	CS_OFFL_SIR_IOPM_2_20210215T133021_20210215T133321_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COGG Allimeter Range and Backscatter Quality Cognor one or more records. CS_OFFL_SIR_IOPM_2_20210215T135540_20210215T140904_CO01 CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T141549_CO01 CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T141549_CO01 CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T141549_CO01 CS_OFFL_SIR_IOPM_2_20210215T141255_20210215T144088_CO01 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T144088_CO01 CS_OFFL_SIR_IOPM_2_20210215T144047_20210215T144088_CO01 CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T145414_CO01 CS_OFFL_SIR_IOPM_2_20210215T151114_2010215T151118_CO01 CS_OFFL_SIR_IOPM_2_20210215T151114_2010215T1511853_CO01 CS_OFFL_SIR_IOPM_2_20210215T151109_20210215T151583_CO01 CS_OFFL_SIR_IOPM_2_20210215T151096_20210215T1545326_CO01 CS_OFFL_SIR_IOPM_2_20210215T151096_20210215T155551_CO01 CS_OFFL_SIR_IOPM_2_20210215T1500128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T16010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T1600128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T1600128_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160010_CO01 CS_OFFL_SIR_IOPM_2_20210215T160010_CO01 CS_OFF	CS_OFFL_SIR_IOPM_2_20210215T134047_20210215T134542_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, COCG Altimeter Range Quality, COCG CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T141549_CO01 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T1449_CO01 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T14490_CO01 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T14490_CO01 CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T14514_CO01 CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T145414_CO01 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_CO01 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_CO01 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_CO01 CS_OFFL_SIR_IOPM_2_20210215T151020_20210215T151583_CO01 CS_OFFL_SIR_IOPM_2_20210215T15106_20210215T154326_CO01 CS_OFFL_SIR_IOPM_2_20210215T15106_20210215T155951_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_CO01 Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. 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_20210215T15906_20210215T159551_CO01 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_CO01 Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCEAN Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCEAN Altimeter R	CS_OFFL_SIR_IOPM_2_20210215T134804_20210215T135353_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T144908_C001 CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T144908_C001 CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T145144_C001 CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T145118_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151185_C001 CS_OFFL_SIR_IOPM_2_20210215T15103_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15103_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15106_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T15106_20210215T153951_C001 CS_OFFL_SIR_IOPM_2_20210215T150128_20210215T150610_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T150610_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160128	CS_OFFL_SIR_IOPM_2_20210215T135540_20210215T140904_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCGS Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SPFL_SIR_IOPM_2_20210215T145047_20210215T151118_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_C001 CS_OFFL_SIR_IOPM_2_20210215T151114_20210215T151118_C001 CS_OFFL_SIR_IOPM_2_20210215T15103_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T15103_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T151006_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T151006_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_02010215T161814_C001 CS	CS_OFFL_SIR_IOPM_2_20210215T141259_20210215T141549_C001	0 7	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Range Altimeter Range Range Altimeter Range and Backscatter Quality Flags have been Range Altimeter Range Range Altimeter Range Range Altimeter Range and Backscatter Quality Flags have been Range Altimeter Range	CS_OFFL_SIR_IOPM_2_20210215T142155_20210215T144908_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_20210215T151203_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T151203_20210215T151853_C001 CS_OFFL_SIR_IOPM_2_20210215T151906_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T151906_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T155717_20210215T155951_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T162853_C001 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_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 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 set for one or more records. CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for	CS_OFFL_SIR_IOPM_2_20210215T145047_20210215T145414_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_20210215T151906_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T151906_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T151906_20210215T154326_C001 CS_OFFL_SIR_IOPM_2_20210215T155717_20210215T155951_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210215T1511114_20210215T1511118_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20210215T155717_20210215T155951_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Ran	CS_OFFL_SIR_IOPM_2_20210215T151203_20210215T151853_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 Cs_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 Cs_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 Cs_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 Cs_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 Cs_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 Cs_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 Backscatter Quality for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and	CS_OFFL_SIR_IOPM_2_20210215T151906_20210215T154326_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Bac	CS_OFFL_SIR_IOPM_2_20210215T155717_20210215T155951_C001		
CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been A	CS_OFFL_SIR_IOPM_2_20210215T160128_20210215T160610_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20210215T160702_20210215T161814_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20210215T161816_20210215T162853_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20210215T165217_20210215T165424_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_20210215T165616_20210215T170802_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_20210215T171422_20210215T172525_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_20210215T173143_20210215T173415_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_20210215T173438_20210215T173905_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_20210215T174045_20210215T175551_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_20210215T175731_20210215T180102_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_20210215T180440_20210215T181206_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_20210215T183130_20210215T183257_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_20210215T183420_20210215T184130_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_20210215T184253_20210215T190704_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_20210215T190926_20210215T191820_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_20210215T192027_20210215T194431_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_20210215T194801_20210215T194856_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_20210215T201130_20210215T204616_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_20210215T205145_20210215T205610_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_20210215T205900_20210215T212453_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_20210215T215315_20210215T222538_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_20210215T223100_20210215T223649_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_20210215T223814_20210215T225919_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_20210215T231450_20210215T231526_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_20210215T232929_20210216T000432_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_20210215T001640_20210215T001834_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T073805_20210215T073811_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T073820_20210215T073826_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T081903_20210215T082025_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20210215T083446_20210215T083608_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T113939_20210215T114111_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T134542_20210215T134804_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T205037_20210215T205145_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_20210215T000754_20210215T001640_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_20210215T150059_20210215T150541_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210215T182057_20210215T182514_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20210215T010549_20210215T010713_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_20210215T014742_20210215T014923_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_20210215T052134_20210215T052450_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_20210215T061212_20210215T061501_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_20210215T061927_20210215T062429_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_20210215T062909_20210215T063031_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_20210215T063741_20210215T063903_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_20210215T064112_20210215T064624_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_20210215T070213_20210215T070557_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_20210215T073102_20210215T073401_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_20210215T074030_20210215T074319_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_20210215T081903_20210215T082025_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_20210215T095646_20210215T100141_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_20210215T101110_20210215T101228_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_20210215T105031_20210215T105155_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_20210215T113717_20210215T113843_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_20210215T113939_20210215T114111_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_20210215T115136_20210215T115155_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_20210215T115853_20210215T115910_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_20210215T123006_20210215T123131_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_20210215T134542_20210215T134804_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_20210215T141550_20210215T141931_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_20210215T150658_20210215T151030_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_20210215T155457_20210215T155717_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_20210215T164538_20210215T164657_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_20210215T165053_20210215T165217_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_20210215T182021_20210215T182050_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_20210215T182515_20210215T182721_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_20210215T182820_20210215T183049_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	OOOO Alkins stan Barrara Ooselita Bi DM	
CS_OFFL_SIR_IOPN_2_20210215T194459_20210215T194800_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_20210215T194459_20210215T194800_C001 CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	
	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Pagne and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001	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	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001	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 Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001 CS_OFFL_SIR_IOPN_2_20210215T201008_20210215T201130_C001	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 Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001 CS_OFFL_SIR_IOPN_2_20210215T201008_20210215T201130_C001 CS_OFFL_SIR_IOPN_2_20210215T205037_20210215T205145_C001	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 Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001 CS_OFFL_SIR_IOPN_2_20210215T201008_20210215T201130_C001 CS_OFFL_SIR_IOPN_2_20210215T205037_20210215T205145_C001 CS_OFFL_SIR_IOPN_2_20210215T214500_20210215T215059_C001	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 Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001 CS_OFFL_SIR_IOPN_2_20210215T201008_20210215T201130_C001 CS_OFFL_SIR_IOPN_2_20210215T205037_20210215T205145_C001 CS_OFFL_SIR_IOPN_2_20210215T214500_20210215T215059_C001 CS_OFFL_SIR_IOPN_2_20210215T231252_20210215T231414_C001	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 Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001 CS_OFFL_SIR_IOPN_2_20210215T201008_20210215T201130_C001 CS_OFFL_SIR_IOPN_2_20210215T205037_20210215T205145_C001 CS_OFFL_SIR_IOPN_2_20210215T214500_20210215T215059_C001 CS_OFFL_SIR_IOPN_2_20210215T231252_20210215T231414_C001 CS_OFFL_SIR_IOPN_2_20210215T231734_20210215T231832_C001	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 Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001 CS_OFFL_SIR_IOPN_2_20210215T201008_20210215T201130_C001 CS_OFFL_SIR_IOPN_2_20210215T205037_20210215T205145_C001 CS_OFFL_SIR_IOPN_2_20210215T214500_20210215T215059_C001 CS_OFFL_SIR_IOPN_2_20210215T231252_20210215T231414_C001 CS_OFFL_SIR_IOPN_2_20210215T231734_20210215T231832_C001 CS_OFFL_SIR_IOPN_2_20210215T000142_20210215T000443_C001	OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210215T194856_20210215T195032_C001 CS_OFFL_SIR_IOPN_2_20210215T200427_20210215T200912_C001 CS_OFFL_SIR_IOPN_2_20210215T201008_20210215T201130_C001 CS_OFFL_SIR_IOPN_2_20210215T205037_20210215T205145_C001 CS_OFFL_SIR_IOPN_2_20210215T214500_20210215T215059_C001 CS_OFFL_SIR_IOPN_2_20210215T231252_20210215T231414_C001 CS_OFFL_SIR_IOPN_2_20210215T231734_20210215T231832_C001 CS_OFFL_SIR_IOPN_2_20210215T000142_20210215T000443_C001 CS_OFFL_SIR_IOPR_2_20210215T000754_20210215T001640_C001	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 Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20210215T032933_20210215T032938_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_20210215T033758_20210215T033808_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_20210215T033811_20210215T034251_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_20210215T035842_20210215T035952_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_20210215T042347_20210215T043009_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_20210215T045720_20210215T045925_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_20210215T045925_20210215T050529_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_20210215T050746_20210215T051429_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_20210215T060923_20210215T061011_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_20210215T063903_20210215T064112_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_20210215T064624_20210215T065237_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_20210215T082448_20210215T083344_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_20210215T100141_20210215T100920_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_20210215T100956_20210215T101110_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_20210215T101228_20210215T101402_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_20210215T114111_20210215T114743_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_20210215T115240_20210215T115315_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_20210215T115438_20210215T115527_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_20210215T121705_20210215T122004_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_20210215T131925_20210215T132643_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_20210215T132643_20210215T132906_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_20210215T133321_20210215T133706_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_20210215T134015_20210215T134047_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_20210215T145921_20210215T150040_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_20210215T150059_20210215T150541_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_20210215T154326_20210215T155028_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_20210215T163908_20210215T164422_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_20210215T170803_20210215T171015_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_20210215T180102_20210215T180440_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_20210215T181909_20210215T182020_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_20210215T182057_20210215T182514_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_20210215T195700_20210215T200427_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_20210215T213501_20210215T214500_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_20210215T231233_20210215T231251_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_20210215T231832_20210215T232620_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	•	

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 192

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.

lumber of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 139

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this 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: 28

Product	Test Failed	Description
CS OFFE SIR IOP 2 202102141232155 202102151001133 C002		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_220210215T001133_20210215T010110_C001	Mean Sea Surface (1), Mean 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_220210215T010110_20210215T015048_C001	Mean Sea Surface (1), Mean 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_220210215T015048_20210215T024025_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_220210215T024025_20210215T033003_C001	Mean Sea Surface (1), Mean 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_220210215T041939_20210215T050917_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_220210215T050917_20210215T055854_C001	Mean Sea Surface (1), Mean 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_220210215T055854_20210215T064832_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_220210215T064832_20210215T073809_C001	Mean Sea Surface (1), Mean 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_220210215T073809_20210215T082747_C001	Mean Sea Surface (1), Mean 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_220210215T082747_20210215T091724_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_220210215T091724_20210215T100701_C001	Mean Sea Surface (1), Mean 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_220210215T100701_20210215T105638_C001	Mean Sea Surface (1), Mean 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_220210215T105638_20210215T114616_C001	Mean Sea Surface (1), Mean 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_220210215T114616_20210215T123553_C001	Mean Sea Surface (1), Mean 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_220210215T123553_20210215T132531_C001	Mean Sea Surface (1), Mean 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_220210215T132531_20210215T141508_C001	Mean Sea Surface (1), Mean 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_220210215T141508_20210215T150445_C001	Mean Sea Surface (1), Mean 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_220210215T150445_20210215T155422_C001	Mean Sea Surface (1), Mean 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_220210215T155422_20210215T164400_C001	Mean Sea Surface (1), Mean 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_220210215T164400_20210215T173337_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_220210215T173337_20210215T182315_C001	Mean Sea Surface (1), Mean 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_220210215T182315_20210215T191252_C001	Mean Sea Surface (1), Mean 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_220210215T191252_20210215T200229_C001	Mean Sea Surface (1), Mean 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_220210215T200229_20210215T205206_C001	Mean Sea Surface (1), Mean 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_220210215T214144_20210215T223121_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_220210215T223121_20210215T232059_C001	Mean Sea Surface (1), Mean 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_220210215T232059_20210216T001036_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

0

6.6 P2P Measurement Quality Flag Check

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:

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:

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:

29

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:

29

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:

29

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	178	178	4	174	0	
SIR_IOPR1B	113	97	2	95	0	
SIR_IOPN1B	97	113	0	113	0	
SIR_IOPM_2	178	178	121	57	0	
SIR_IOPR_2	113	97	33	64	0	
SIR_IOPN_2	97	113	41	70	2	
SIR_IOP_P2P	28	28	0	26	2	

7.1 QCC Errors

Number of QCC reports with errors:

10

Total number of occurrences of each error

1 Todact Type	CODOI NODI	112	KEODOI NODI	IVE	_	_	_	-	_	_	
SIR_IOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

Test Description Key:						
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				

7.2 QCC Warnings

Number of QCC reports with warnings

2018

Total number of occurrences of each warning

Ī	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
Ī	SIR_IOPM1B	174	0	0	0	0	0	0	
	SIR_IOPM_2	0	0	40	44	1	46	0	
	SIR_IOPN1B	93	0	0	0	0	0	0	
	SIR_IOPN_2	0	0	6	34	3	24	27	
	SIR_IOPR1B	111	0	0	0	0	0	0	
	SIR IOPR 2	0	2	23	32	2	20	21	

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	36	35	0	0	0	0	23
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	14	0	0	17	0	36	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	8	0	34	0	39	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	6	25	0	6	36
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	30	17	43	51	24	27
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	31	0	2	54	33	13	29

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	•
SIR_IOPM1B	0	0	0	0	0		
SIR_IOPM_2	0	3	0	0	0		
SIR_IOPN1B	0	0	0	47	2		
SIR_IOPN_2	29	13	0	0	0		
SIR_IOPR1B	0	0	0	113	12		
SIR_IOPR_2	33	3	4	0	0		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	15	26	28	6	28	18	27

SIR_IOP_2_	17	27	24	17	28	18	21
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	-	•
SIR_IOP_2_	28	19	12	28			
Product Type	•	-	-	-	-	•	-
SIR IOP 2							

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
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				
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				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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

Product Type

Number of products with missing QCC reports:

RPEPOPFDPLRMSINNCD RPEPOPFDSINNCDF RPEPOPSINNCDF