

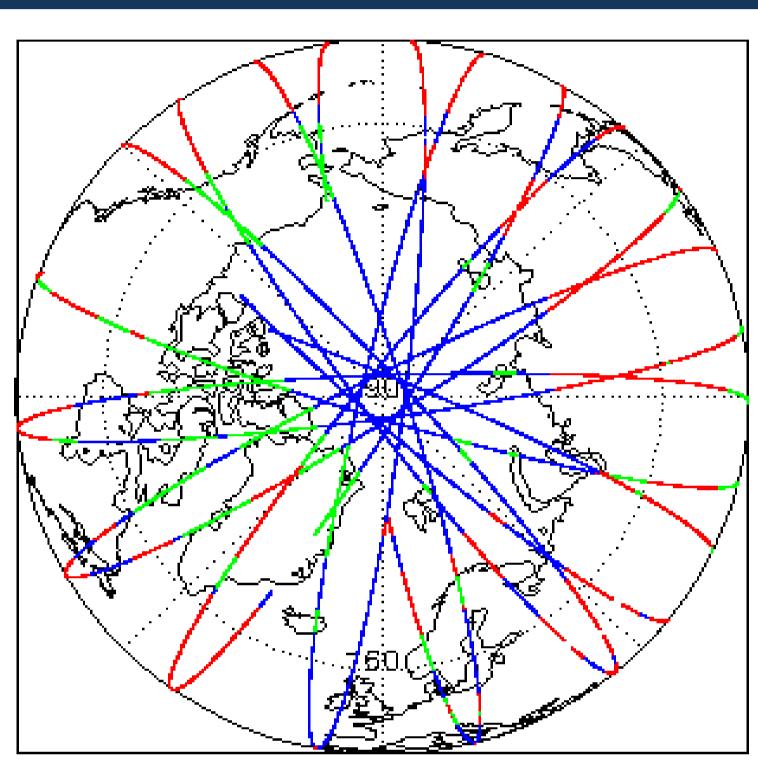
1. Overview

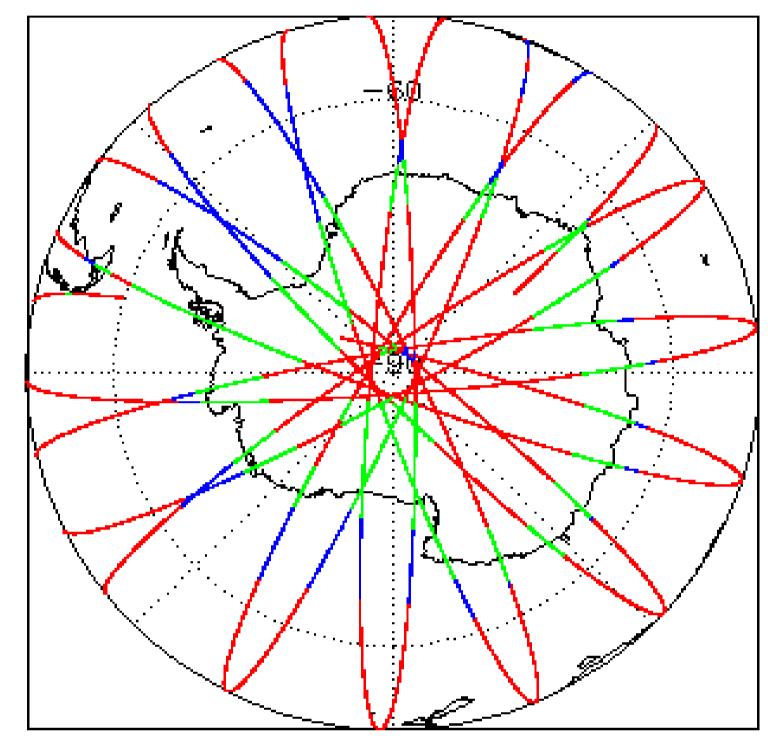
Report Production:	13-Jan-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

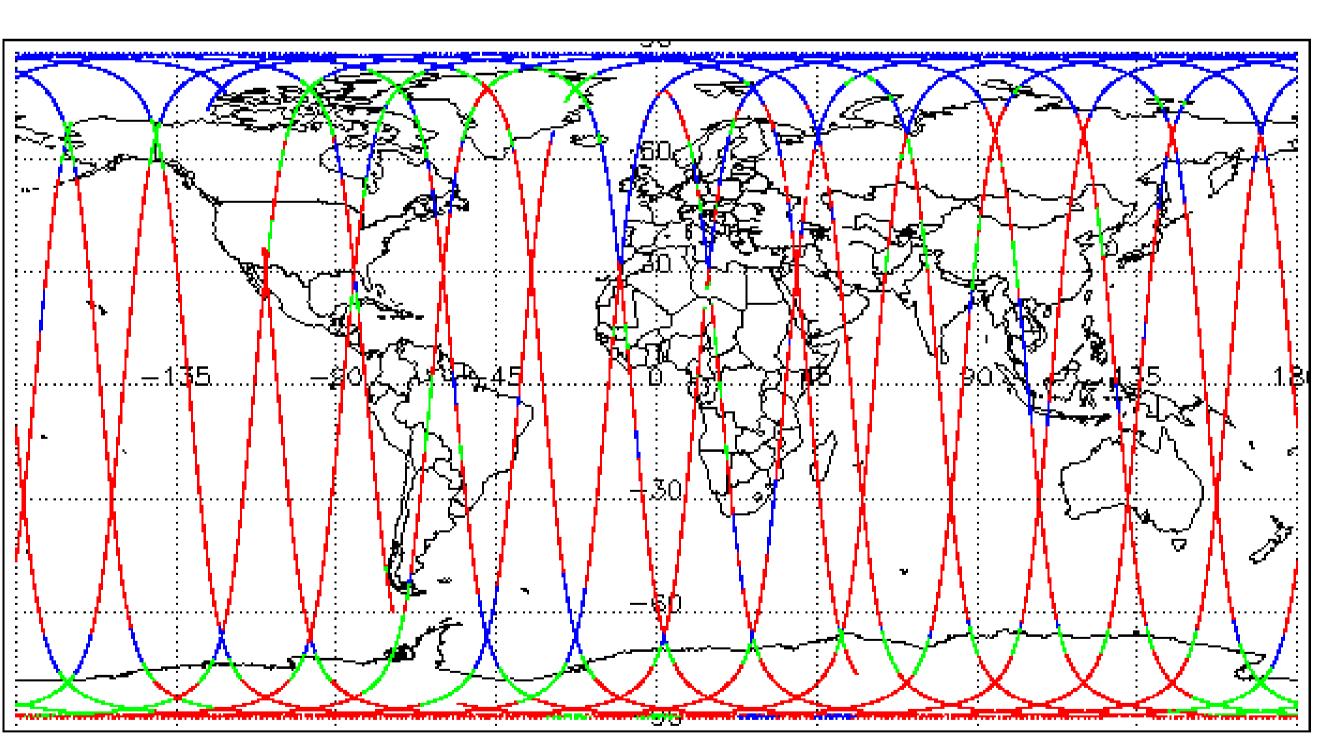
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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, 7.2

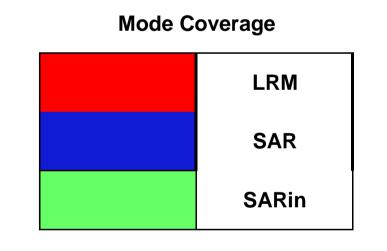
Mission / Instru	ıment News
09-Jan-2021	None
10-Jan-2021	None
11-Jan-2021	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

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Number 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:

1	6

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210110T034400_20210110T034847_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T021639_20210110T021806_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T035953_20210110T040259_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T071446_20210110T071747_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T071859_20210110T072114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T181334_20210110T181509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T190204_20210110T190303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T190305_20210110T190430_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T193902_20210110T194455_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210110T203838_20210110T204100_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210110T003222_20210110T003424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210110T071024_20210110T071218_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210110T103802_20210110T104744_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210110T145324_20210110T145556_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210110T153306_20210110T154011_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210110T183054_20210110T183255_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: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors: 49

Product Test Failed Description There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPM_2_20210110T104745_20210110T104921_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPM_2_20210110T220925_20210110T220956_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T013149_20210110T013504_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T031036_20210110T031355_C001 Topography (1) Topography height (solution 1) There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20210110T031921_20210110T032045_C001 more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: Topography (1), Total Geocentric Ocean CS OFFL SIR IOPN 2 20210110T035953 20210110T040259 C001 GOT) for one or more records Tide (GOT) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T045731_20210110T045855_C001 Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T054100_20210110T054159_C001 Topography height (solution 1) Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T063511_20210110T063722_C001 Topography height (solution 1) Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPN_2_20210110T071446_20210110T071747_C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T071859_20210110T072114_C001 Topography height (solution 1) Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPN_2_20210110T080531_20210110T080717_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPN_2_20210110T085542_20210110T085939_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20210110T095505_20210110T095703_C001 more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPN_2_20210110T135111_20210110T135334_C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T144343_20210110T144508_C001 Topography height (solution 1) Topography (1) iviean Sea Surface (1), iviean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T145019_20210110T145323_C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1), and tidal corrections for one or more records Tide (FFS) Non-Fauilibrium Long Period Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR IOPN 2 20210110T162412 20210110T162708 C001 Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T162922_20210110T163442_C001 Topography (1) Topography height (solution 1) There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR IOPN 2 20210110T171349 20210110T171445 C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T180359_20210110T180634_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T185915_20210110T190028_C001 Topography height (solution 1) Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPN_2_20210110T193902_20210110T194455_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOPN_2_20210110T203838_20210110T204100_C001 Topography height (solution 1) Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR IOPN 2 20210110T212118 20210110T212309 C001 Topography height (solution 1) Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPN_2_20210110T221824_20210110T222258_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_IOPN_2_20210110T230057_20210110T230235_C001 Mean Dynamic Topography (1) more records

CS_OFFL_SIR_IOPR_2_20210110T003222_20210110T003424_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_20210110T003754_20210110T003948_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_20210110T004327_20210110T005129_C001	Mean Sea Surface (1), Mean 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_20210110T040300_20210110T041046_C001	Mean Sea Surface (1), Mean 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_20210110T054159_20210110T054742_C001	Mean Sea Surface (1), Mean 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_20210110T072115_20210110T072505_C001	Mean Sea Surface (1), Mean 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_20210110T072506_20210110T072800_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_20210110T085939_20210110T090502_C001	Mean Sea Surface (1), Mean 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_20210110T103802_20210110T104744_C001	Mean Sea Surface (1), Mean 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_20210110T121658_20210110T122259_C001	Mean Sea Surface (1), Mean 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_20210110T123334_20210110T123416_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_20210110T135415_20210110T140112_C001	Mean Sea Surface (1), Mean 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_20210110T140112_20210110T140423_C001	Mean Sea Surface (1), Mean 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_20210110T153306_20210110T154011_C001	Mean Sea Surface (1), Mean 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_20210110T154011_20210110T154220_C001	Mean Sea Surface (1), Mean 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_20210110T171445_20210110T171906_C001	Mean Sea Surface (1), Mean 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_20210110T171906_20210110T172019_C001	Mean Sea Surface (1), Mean 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_20210110T185242_20210110T185733_C001	Mean Sea Surface (1), Mean 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_20210110T185733_20210110T185915_C001	Mean Sea Surface (1), Mean 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_20210110T203225_20210110T203838_C001	Mean Sea Surface (1), Mean 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_20210110T221403_20210110T221823_C001	Mean Sea Surface (1), Mean 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_20210110T235113_20210111T000014_C001	Mean Sea 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.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210109T235556_20210110T000151_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_20210110T000325_20210110T002453_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_20210110T002459_20210110T002650_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.

COUNTY OF COME A STREET COME AS CONTROLLED A	CS_OFFL_SIR_IOPM_2_20210110T003949_20210110T004145_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.
Company Comp	CS_OFFL_SIR_IOPM_2_20210110T005439_20210110T012855_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCLUPIELS COPPLICATION OF ACTUAL TOTAL CONTRIBUTION OF THE PROPERTY OF THE PRO	CS_OFFL_SIR_IOPM_2_20210110T013504_20210110T014024_C001		
South Library 2. 2021 CHICADAD 2.001 OF CROSS 200. Co. QUELLO SALLO PROCESS AND CHICADAD 2.001	CS_OFFL_SIR_IOPM_2_20210110T014223_20210110T014530_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SOUTH_BILL_OFF_2_221*** OTTO SOUTH CONTROLLED COST SOUTH_BILL_OFF_2_221*** OTTO SOUTH COST COST COST COST COST COST COST COST	CS_OFFL_SIR_IOPM_2_20210110T014700_20210110T014822_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
## 65-500FL_SR_LOPW_2_2020110T02407_201110T0	CS_OFFL_SIR_IOPM_2_20210110T021339_20210110T021350_C001		
OBJ. OFFIL. SIR. IOPM 2. 202101-107034972, 202101-107044902, DOID OBJ. OFFIL. SIR. IOPM 2. 202101-107034985, 202101-107044902, DOID OBJ. OFFIL. SIR. IOPM 2. 202101-107034985, 202101-10704902, DOID OBJ. OFFIL. SIR. IOPM 3. 202101-107034985, 202101-10704902, DOID OBJ. OFFIL. SIR. IOPM 3. 202101-107034985, 202101-10704902, DOID OBJ. OFFIL. SIR. IOPM 3. 202101-107034998, 202101-10704902, DOID OBJ. OFFIL. SIR. IOPM 3. 202101-10704902, 202101-10704902, DOID OBJ. OFFIL. SIR. IOPM 3	CS_OFFL_SIR_IOPM_2_20210110T021807_20210110T022027_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_BR_OFFL_2;22101107031515_2210110703192_CO01 CS_OFFL_BR_OFFL_2;22101107031515_2210110703192_CO01 CS_OFFL_BR_OFFL_2;22101107031515_2210110703192_CO01 CS_OFFL_BR_OFFL_2;22101107031515_2210110703192_CO01 CS_OFFL_BR_OFFL_2;2210110703212_2;2210110703212_CO01 CS_OFFL_BR_OFFL_2;2210110703212_C00110703212_C001 CS_OFFL_BR_OFFL_2;2210110703212_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_2;2210110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110703313_C00110703212_C0011 CS_OFFL_BR_OFFL_2;2210110704130_C001107034408_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704450_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704450_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C0011 CS_OFFL_BR_OFFL_2;2210110704340_C00110704540_C00	CS_OFFL_SIR_IOPM_2_20210110T023437_20210110T024309_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Budscatter Quality CS OFFL SIR 10PM 2 20210110703013 20210110703025 C001 CS OFFL SIR 10PM 2 20210110703013 20210110703030 C0010110704019 C001 CS OFFL SIR 10PM 2 20210110704027 20210110704050 C001 CS OFFL SIR 10PM 2 20210110704027 20210110704050 C001 CS OFFL SIR 10PM 2 20210110704030 20210110704050 C001 CS OFFL SIR 10PM 2 20210110704052 20210110705050 C001 CS OFFL SIR 10PM 2 20210110705050 20210110705050 C001 CS OFFL SIR 10PM 2 202101107050	CS_OFFL_SIR_IOPM_2_20210110T024555_20210110T030809_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and deadsocted Quality, CCOS Allineer Range and Sadsocted Quality, CCOS Allineer Range and Sadsocted Quality Flags have been and subscription Quality Flags have been set for one or nor nor not one set one or or nor nor nor not	CS_OFFL_SIR_IOPM_2_20210110T031515_20210110T031920_C001		
and flackscatter Quality. COSQ Affirmeter Range and Backscatter Quality. Flags have been and flackscatter Quality. SPENS AND Affirmeter Range and Backscatter Quality. Flags have been set for one or nor secords. CS_OFFL_SIR_JOPM_2_20210110T044902_20210110T044902_C001 CS_OFFL_SIR_JOPM_2_20210110T044902_20210110T04508_C001 CS_OFFL_SIR_JOPM_2_20210110T045027_20210110T04509_C001 CS_OFFL_SIR_JOPM_2_20210110T045027_20210110T04509_C001 CS_OFFL_SIR_JOPM_2_20210110T04509_20210110T04509_C001 CS_OFFL_SIR_JOPM_2_20210110T04509_20210110T04509_C001 CS_OFFL_SIR_JOPM_2_20210110T050909_20210110T05509_C001 CS_OFFL_SIR_JOPM_2_20210110T050909_20210110T05509_C001 CS_OFFL_SIR_JOPM_2_20210110T050909_20210110T05509_C001 CS_OFFL_SIR_JOPM_2_20210110T050909_20210110T050909_C001 CS_OFFL_SIR_JOPM_2_2	CS_OFFL_SIR_IOPM_2_20210110T032123_20210110T033425_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Allmeter Range and Backscatter Quality, OCOG Allmeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210110T04902_20210110T04508_C001 CS_OFFL_SIR_IOPM_2_20210110T04902_20210110T04508_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_20210110T053002_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_20210110T053002_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_20210110T060008_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T050308_C001 CS_OFFL_SIR_IOPM_2_20210110T060458_20210110T060308_C001 CS_OFFL_SIR_IOPM_2_20210110T060508_20100110T060508_2001 CS_OF	CS_OFFL_SIR_IOPM_2_20210110T033613_20210110T034219_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sofficially and the Occo Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110706506_20210110706503_C001 CS_OFFL_SIR_IOPM_2_20210110706506_20210110706503_C001 CS_OFFL_SIR_IOPM_2_20210110706506_20210110706503_C001 CS_OFFL_SIR_IOPM_2_20210110706507_20210110706503_C001 CS_OFFL_SIR_IOPM_2_20210110706507_20210110706503_C001 CS_OFFL_SIR_IOPM_2_20210110706507_202101	CS_OFFL_SIR_IOPM_2_20210110T041330_20210110T044659_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210110T050506_20210110T053603_C001 CS_OFFL_SIR_JOPM_2_20210110T053737_20210110T053603_C001 CS_OFFL_SIR_JOPM_2_20210110T053737_20210110T053926_C001 CS_OFFL_SIR_JOPM_2_20210110T053926_20210110T054100_C001 CS_OFFL_SIR_JOPM_2_20210110T053926_20210110T054100_C001 CS_OFFL_SIR_JOPM_2_20210110T053926_20210110T054100_C001 CS_OFFL_SIR_JOPM_2_20210110T055242_20210110T054100_C001 CS_OFFL_SIR_JOPM_2_20210110T056242_20210110T054100_C001 CS_OFFL_SIR_JOPM_2_20210110T056242_20210110T0562611_C001 CS_OFFL_SIR_JOPM_2_20210110T056242_20210110T0562611_C001 CS_OFFL_SIR_JOPM_2_20210110T056242_20210110T0562611_C001 CS_OFFL_SIR_JOPM_2_20210110T056242_20210110T0562611_C001 CS_OFFL_SIR_JOPM_2_20210110T056242_20210110T062611_C001 CS_OFFL_SIR_JOPM_2_20210110T062759_20210110T062412_C001 CS_OFFL_SIR_JOPM_2_20210110T062759_20210110T06242_C001 CS_OFFL_SIR_JOPM_2_20210110T062447_20210110T06242_C001 CS_OFFL_SIR_JOPM_2_20210110T065405_20210110T065242_C001 CS_OFFL_SIR_JOPM_2_20210110T	CS_OFFL_SIR_IOPM_2_20210110T044902_20210110T045406_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been at the COCG Altimeter Range and Backscatter Quality Flags have been at the COCG Altimeter Range and Backscatter Quality Flags have been at the COCG Altimeter Range and Backscatter Quality Flags have been at the COCG Altimeter Range and Backscatter Quality Flags have been set to one or more records. CS_OFFL_SIR_IOPM_2_20210110T053926_20210110T054100_CO01 CS_OFFL_SIR_IOPM_2_20210110T05524_20210110T064352_CO01 CS_OFFL_SIR_IOPM_2_20210110T06524_20210110T064352_CO01 CS_OFFL_SIR_IOPM_2_20210110T060524_20210110T064352_CO01 CS_OFFL_SIR_IOPM_2_20210110T06456_20210110T064261_CO01 CS_OFFL_SIR_IOPM_2_20210110T06456_20210110T065305_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065305_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T074853_CO01 CS_OFFL_SIR_IOPM_2_20210110T064267_20210110T074853_CO01 CS_OFFL_SIR_IOPM_2_20210110T065242_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765303_C001 CS_OFFL_SIR_IOPM_2_20210110T0765303_C001 CS_OFFL_SIR_IOPM_2_20210110T0765303_20210110T074853_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765303_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T078653_CO01 CS_OFFL_SIR_IOPM_2_20210110T0765033_20210110T0	CS_OFFL_SIR_IOPM_2_20210110T045427_20210110T045730_C001		
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210110T053926_20210110T054100_C001 CS_OFFL_SIR_IOPM_2_20210110T055524_20210110T060352_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062611_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062611_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062611_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T0604247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T075645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075633_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075633_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T0756345_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T	CS_OFFL_SIR_IOPM_2_20210110T050506_20210110T053603_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20210110T065524_20210110T060352_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062811_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062811_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T062759_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T062759_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T062759_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065305_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065305_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065305_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065305_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T074653_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075633_20210110T074853_C001 CS_OF	CS_OFFL_SIR_IOPM_2_20210110T053737_20210110T053926_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062611_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062611_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062611_C001 CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T06305_C001 CS_OFFL_SIR_IOPM_2_20210110T062759_20210110T06305_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_2021011	CS_OFFL_SIR_IOPM_2_20210110T053926_20210110T054100_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T062759_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T062759_20210110T063305_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CCGA Altimeter Range and Backscatter Quality CCGA Altimeter Range A	CS_OFFL_SIR_IOPM_2_20210110T055524_20210110T060352_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001 CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T08503_C001 CS_OFFL_SIR_IOPM_2_20210110T08503_C001 CS_OFFL_SIR_	CS_OFFL_SIR_IOPM_2_20210110T060456_20210110T062611_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. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210110T062759_20210110T063305_C001		
CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 CS_OFFL_SIR_IOPM_2_20210110T080718_20210110T081217_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T080718_20210110T081217_C001	CS_OFFL_SIR_IOPM_2_20210110T064247_20210110T065242_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210110T065902_20210110T071023_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altim	CS_OFFL_SIR_IOPM_2_20210110T073645_20210110T074853_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US OFFI SIR IOPM / /0/101101080/18 /0/101101081/1/ COOL	CS_OFFL_SIR_IOPM_2_20210110T075033_20210110T080503_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20210110T080718_20210110T081217_C001		

CS_OFFL_SIR_JOPM_2_202101107082091_202101107082496_0001 CS_OFFL_SIR_JOPM_2_202101107082091_202101107082496_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082496_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082496_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082286_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082286_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082496_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107082456_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107102419_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107102419_0001 CS_OFFL_SIR_JOPM_2_202101107082798_202101107112490_0001 CS_OFFL_SIR_JOPM_2_2021011071082798_202101107112490_0001 CS_OFFL_SIR_JOPM_2_2021011071082798_202101107112490_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107112490_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107112490_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107112490_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107113940_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107113940_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107113940_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107113940_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107113940_0001 CS_OFFL_SIR_JOPM_2_202101107113897_202101107113940_0001 CS_OFFL_SIR_JOPM_2_202101107113897_20210110711394
and flackscatter Quality, QCOG Allimeter Range and Backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been set for none or more records. CS_OFFL_SIR_IOPM_2_20210110T1058749_20210110T11249_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113400001 CS_OFFL
and Backscatter Quality Plags have been started Place or none records. CS_OFFL_SIR_IOPM_2_202101107084446_20210110708228_C0001 CS_OFFL_SIR_IOPM_2_202101107084446_20210110708428_C0010110708228_C0001 CS_OFFL_SIR_IOPM_2_20210110708213_202101107084451_C001 CS_OFFL_SIR_IOPM_2_20210110708213_202101107084451_C001 CS_OFFL_SIR_IOPM_2_20210110708213_202101107084513_C001 CS_OFFL_SIR_IOPM_2_202101107084788_202101107084513_C001 CS_OFFL_SIR_IOPM_2_202101107084788_202101107084788_C00101107084788_C
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Aftimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T094758_20210110T095135_C001 CS_OFFL_SIR_IOPM_2_20210110T094758_20210110T102419_C001 CS_OFFL_SIR_IOPM_2_20210110T095749_20210110T102419_C001 CS_OFFL_SIR_IOPM_2_20210110T095749_20210110T102419_C001 CS_OFFL_SIR_IOPM_2_20210110T105751_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T105751_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T105751_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T113541_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T11344_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T11345_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T11345_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123615_20210110T124030_C001 CS_OFFL_SI
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCG
Backscatter Quality CS_OFFL_SIR_IOPM_2_20210110T1095749_20210110T102419_C001 CS_OFFL_SIR_IOPM_2_20210110T105751_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T12134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T12134_C001 CS_OFFL_SIR_IOPM_2_20210110T123815_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123815_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123815_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T105751_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T112403_C001 CS_OFFL_SIR_IOPM_2_20210110T112541_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T12134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T12134_C001 CS_OFFL_SIR_IOPM_2_20210110T128815_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123815_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CCOG 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_20210110T112541_20210110T113050_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T12134_C001 CS_OFFL_SIR_IOPM_2_20210110T128815_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T123815_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 And Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T130335_C001 CS_OFFL_SIR_IOPM_2_20210110T13054
Backscatter Quality GS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 Backscatter Quality GS_OFFL_SIR_IOPM_2_20210110T113057_20210110T113424_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 CS_OFFL_SIR_IOPM_2_20210110T123815_20210110T124030_C001 CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 Backscatter Quality GCGA Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210110T130542_20210110T131123_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality Ocean Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T113807_20210110T121134_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean 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. 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. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20210110T123815_20210110T124030_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20210110T125732_20210110T130335_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altim
US OFFI SIR IOPM / 70/10110113094/ 70/1011011311/3 C001
CS_OFFL_SIR_IOPM_2_20210110T131719_20210110T135024_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T140423_20210110T140514_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T141907_20210110T142354_C001 OCOG Altimeter Range Quality, OCOG for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T142357_20210110T144304_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T144509_20210110T145018_C001 OCOG Altimeter Range Quality, OCOG for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T145557_20210110T153021_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T155456_20210110T155936_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T160015_20210110T161848_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags 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 set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T162709_20210110T162922_C001 OCOG Altimeter Range Quality, OCOG for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T163623_20210110T170700_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.
CS_OFFL_SIR_IOPM_2_20210110T171030_20210110T171134_C001 OCOG Altimeter Range Quality, OCOG for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20210110T172518_20210110T174357_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_20210110T174439_20210110T175752_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_20210110T180959_20210110T181333_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_20210110T181513_20210110T183053_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_20210110T183256_20210110T184218_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_20210110T190029_20210110T190203_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_20210110T190453_20210110T190700_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_20210110T190944_20210110T192140_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_20210110T193755_20210110T193902_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_20210110T194455_20210110T194758_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_20210110T195449_20210110T200924_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_20210110T204758_20210110T205509_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_20210110T205611_20210110T212037_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_20210110T212309_20210110T213133_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_20210110T213404_20210110T215956_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_20210110T223145_20210110T225850_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_20210110T230521_20210110T230936_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_20210110T231256_20210110T234034_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_20210110T234041_20210110T234243_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_20210110T235038_20210110T235112_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_20210110T035721_20210110T035804_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_20210110T063337_20210110T063343_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210110T135343_20210110T135415_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_20210110T204122_20210110T204304_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_20210110T023225_20210110T023256_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_20210110T130335_20210110T130419_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_20210110T171906_20210110T172019_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_20210110T181509_20210110T181513_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_20210110T190431_20210110T190452_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_20210110T234811_20210110T235038_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20210110T005130_20210110T005251_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_20210110T015459_20210110T015604_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20210110T015935_20210110T020037_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20210110T020240_20210110T020424_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20210110T021302_20210110T021338_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_20210110T021442_20210110T021506_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20210110T021639_20210110T021806_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_20210110T023049_20210110T023135_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_20210110T023140_20210110T023224_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_20210110T031921_20210110T032045_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_20210110T034219_20210110T034348_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_20210110T035953_20210110T040259_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_20210110T044712_20210110T044902_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_20210110T045731_20210110T045855_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_20210110T045855_20210110T045909_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_20210110T053618_20210110T053737_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_20210110T063511_20210110T063722_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_20210110T065243_20210110T065348_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_20210110T071446_20210110T071747_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_20210110T071859_20210110T072114_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_20210110T085542_20210110T085939_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_20210110T091439_20210110T091526_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_20210110T094524_20210110T094757_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_20210110T104922_20210110T104936_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_20210110T113424_20210110T113552_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_20210110T121135_20210110T121522_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_20210110T131124_20210110T131158_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_20210110T135111_20210110T135334_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_20210110T141128_20210110T141138_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_20210110T144343_20210110T144508_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_20210110T162412_20210110T162708_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_20210110T162922_20210110T163442_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_20210110T172020_20210110T172225_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_20210110T180359_20210110T180634_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_20210110T181334_20210110T181509_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_20210110T192140_20210110T192704_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_20210110T193653_20210110T193755_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_20210110T193902_20210110T194455_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_20210110T201921_20210110T202148_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_20210110T203838_20210110T204100_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_20210110T212118_20210110T212309_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_20210110T213133_20210110T213339_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_20210110T221824_20210110T222258_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_20210110T222852_20210110T223103_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_20210110T230057_20210110T230235_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_20210110T230937_20210110T231230_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_20210110T003222_20210110T003424_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_20210110T003754_20210110T003948_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_20210110T004145_20210110T004308_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_20210110T004327_20210110T005129_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_20210110T014822_20210110T015103_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210110T020912_20210110T021301_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_20210110T035804_20210110T035953_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_20210110T040300_20210110T041046_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_20210110T041210_20210110T041330_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_20210110T045909_20210110T050506_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_20210110T054159_20210110T054742_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_20210110T054759_20210110T054917_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_20210110T055156_20210110T055524_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Bange, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH 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_20210110T063723_20210110T064246_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_20210110T065649_20210110T065901_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_20210110T071024_20210110T071218_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_20210110T071351_20210110T071446_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_20210110T072115_20210110T072505_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_20210110T085227_20210110T085513_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_20210110T085939_20210110T090502_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_20210110T090534_20210110T090629_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_20210110T091952_20210110T092133_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_20210110T103802_20210110T104744_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210110T113553_20210110T113807_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_20210110T121658_20210110T122259_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_20210110T122326_20210110T122806_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_20210110T123418_20210110T123423_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_20210110T124202_20210110T124227_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_20210110T131440_20210110T131718_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_20210110T135415_20210110T140112_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_20210110T140112_20210110T140423_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_20210110T140625_20210110T141001_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_20210110T145324_20210110T145556_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_20210110T153306_20210110T154011_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_20210110T154011_20210110T154220_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_20210110T154442_20210110T155456_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_20210110T170701_20210110T171029_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_20210110T171445_20210110T171906_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_20210110T171906_20210110T172019_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_20210110T172441_20210110T172517_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_20210110T175753_20210110T180359_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_20210110T181509_20210110T181513_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_20210110T185242_20210110T185733_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_20210110T190700_20210110T190944_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_20210110T193610_20210110T193653_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_20210110T201641_20210110T201814_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_20210110T203225_20210110T203838_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_20210110T204415_20210110T204634_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_20210110T220956_20210110T221218_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_20210110T221403_20210110T221823_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_20210110T231230_20210110T231255_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_20210110T234244_20210110T234328_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_20210110T235113_20210111T000014_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.

150

0

0

> 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: 197

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 63

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:

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210109T235617_20210110T004555_C001	Mean Sea Surface (1), Mean 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_220210110T004555_20210110T013531_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220210110T022510_20210110T031446_C001	Mean Sea Surface (1), Mean 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_220210110T031446_20210110T040425_C002	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_220210110T040425_20210110T045400_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220210110T045400_20210110T054339_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220210110T054339_20210110T063315_C001	Mean Sea Surface (1), Mean 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_220210110T063315_20210110T072254_C001	Mean Sea Surface (1), Mean 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_220210110T072254_20210110T081230_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220210110T081230_20210110T090209_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_220210110T090209_20210110T095144_C001	Mean Sea Surface (1), Mean 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_220210110T095144_20210110T104123_C001	Mean Sea Surface (1), Mean 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_220210110T104123_20210110T113059_C001	Mean Sea Surface (1), Mean 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_220210110T113059_20210110T122038_C001	Mean Sea Surface (1), Mean 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_220210110T122038_20210110T131014_C001	Mean Sea Surface (1), Mean 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_220210110T131014_20210110T135953_C001	Mean Sea Surface (1), Mean 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_220210110T135953_20210110T144928_C001	Mean Sea Surface (1), Mean 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_220210110T144928_20210110T153907_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	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_220210110T153907_20210110T162843_C001	Mean Sea Surface (1), Mean 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_220210110T162843_20210110T171822_C001	Mean Sea Surface (1), Mean 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_220210110T171822_20210110T180758_C001		Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more
CS_OFFL_SIR_IOP_220210110T180758_20210110T185737_C001	Mean Sea Surface (1), Mean 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_220210110T185737_20210110T194712_C001	Mean Sea Surface (1), Mean 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_220210110T194712_20210110T203651_C001	Mean Sea Surface (1), Mean 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_220210110T203651_20210110T212627_C001	Mean Sea Surface (1), Mean 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_220210110T212627_20210110T221606_C001	Mean Sea Surface (1), Mean 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_220210110T221606_20210110T230542_C001	Mean Sea Surface (1), Mean 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_220210110T235521_20210111T004456_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 29

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: 29

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 27

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.

30

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	200	200	4	196	0
SIR_IOPR1B	119	104	0	104	0
SIR_IOPN1B	104	119	0	119	0
SIR_IOPM_2	200	200	147	53	0
SIR_IOPR_2	119	104	41	63	0
SIR_IOPN_2	104	119	31	87	1
SIR_IOP_P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

8

Total num	nher of oc	currences	of ea	ch erroi

Total number of occurrences of each error											
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR IOP 2	1	1	1	1							

Test Description Key:	est 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

2031

Total number of occurrences of each warning

Total number of occurrences of each warning								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
SIR_IOPM1B	196	0	0	0	0	0	0	
SIR_IOPM_2	0	0	39	41	0	39	0	
SIR_IOPN1B	100	0	0	0	0	0	0	
SIR_IOPN_2	0	0	7	35	3	25	26	
SIR_IOPR1B	116	0	0	0	0	0	0	
SIR_IOPR_2	0	1	31	54	0	23	17	

Product Type	RBSZOPOEPNCDF	RMSSGHOPONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	33	1	0	37	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	20	0	1	0	0	26	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	9	0	1	0	48	0	59

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	27	0	0	5	29	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	36	0	0	29	16	41	53
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	0	52	0	4	64	37

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD
SIR_IOPM1B	0	0	0	0	1	0	0
SIR_IOPM_2	3	34	0	1	1	0	0
SIR_IOPN1B	0	0	0	0	1	1	0
SIR_IOPN_2	29	28	30	12	0	0	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	13	36	50	1	0	0	3

_								
	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
	SIR_IOP_2_	15	29	29	4	29	18	28

Product Type	RMSSGHOPONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_IOP_2_	1	1	19	29	24	17	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR_IOP_2_	19	26	29	20	11	29	

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					
RMSSGHOPONCDF	RangeMSSGeoidHeightOPOceanNetCDF	The MSS/geoid height should be between -106000mm and 88000mm (or missing) for surface type = ocean - NetCDF					
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean					
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					

RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample

7.3 Missing QCC Reports

Number of products with missing QCC reports:

Product name

No IOPX reports missing

No IOPX reports missing

2

Product name

CS_OFFL_SIR_IOP_2__20210110T031446_20210110T040425_C002 CS_OFFL_SIR_IOP_2__20210110T040425_20210110T045400_C002