



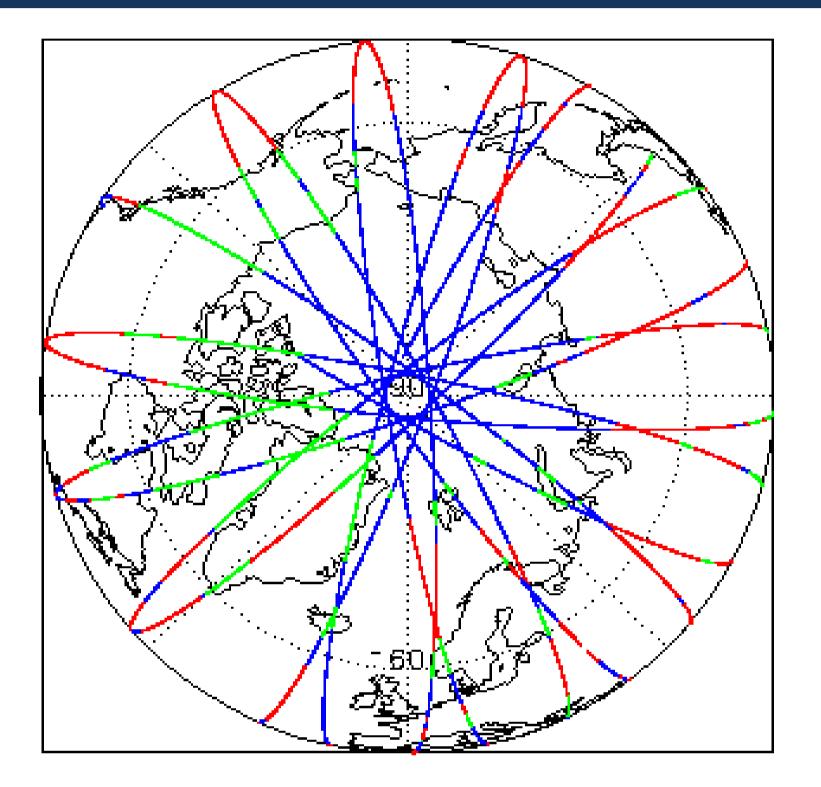
1. Overview

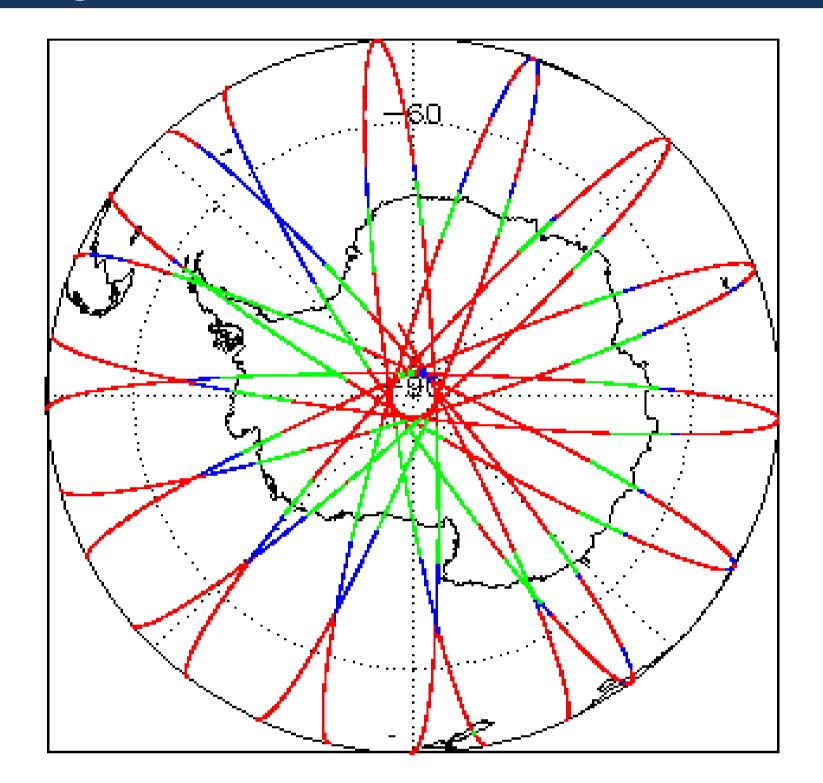
Report Production:	26-Apr-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

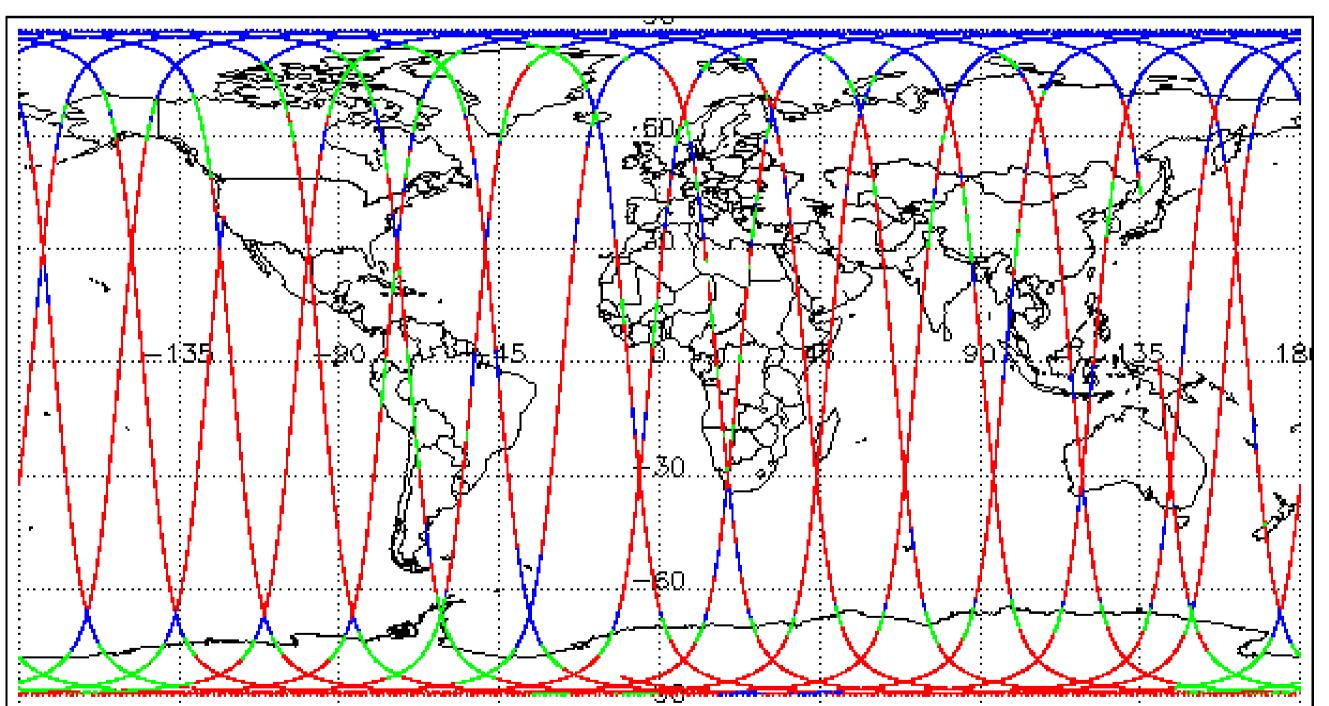
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Instrument News		
20-Apr-2021	None	
21-Apr-2021	None	
22-Apr-2021	Nothing planned	

2. Global Coverage







Mode Coverage



3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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).

Number of products with errors:

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.

.1B 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 a	nd
DSARIn chains. A modification is required in the next release.	

Number of products with errors:

0

0

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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:

17

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210421T025511_20210421T025923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210421T082012_20210421T082145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210421T123103_20210421T123753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210421T194405_20210421T194446_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210421T013151_20210421T013658_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210421T031139_20210421T031545_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210421T131934_20210421T132142_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210421T190605_20210421T190732_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210421T230130_20210421T230215_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210421T230352_20210421T230715_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210421T030814_20210421T031139_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210421T031545_20210421T032145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210421T094559_20210421T095554_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210421T112425_20210421T112606_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210421T193642_20210421T193845_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210421T194609_20210421T194718_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210421T213540_20210421T213606_C001	Loss of Echo	The tracking echo is missing for one or more records

5. **IOP** Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

0

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210421T025511_20210421T025923_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20210421T193539_20210421T193641_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T013151_20210421T013658_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T022941_20210421T023553_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T031139_20210421T031545_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T040023_20210421T040240_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T040909_20210421T041224_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T045018_20210421T045408_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T055004_20210421T055119_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T062459_20210421T063101_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T072910_20210421T073027_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T082244_20210421T082351_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T082857_20210421T083105_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T085914_20210421T090040_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T090602_20210421T090910_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T103857_20210421T104049_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T104502_20210421T104831_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T121940_20210421T122215_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T131450_20210421T131611_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20210421T135508_20210421T140104_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T145417_20210421T145630_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20210421T145757_20210421T150021_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T163331_20210421T163821_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T180815_20210421T180837_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210421T185747_20210421T190011_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_IOPN_2_20210421T203607_20210421T203919_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T221424_20210421T221806_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOPN_2_20210421T222335_20210421T222500_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20210421T230352_20210421T230715_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_IOPR_2_20210420T235744_20210421T000502_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_20210421T013659_20210421T014422_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_20210421T031545_20210421T032145_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_20210421T032145_20210421T032239_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_20210421T045408_20210421T050237_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_20210421T063101_20210421T063845_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_20210421T081034_20210421T081654_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_20210421T081654_20210421T082011_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_20210421T094559_20210421T095554_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_20210421T095554_20210421T095730_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_20210421T112826_20210421T113452_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_20210421T113452_20210421T113620_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_20210421T130741_20210421T130937_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_20210421T130937_20210421T131450_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_20210421T145011_20210421T145417_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_20210421T162648_20210421T163331_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_20210421T180837_20210421T181357_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_20210421T193642_20210421T193845_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_20210421T194744_20210421T195541_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_20210421T212612_20210421T213516_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_20210421T230715_20210421T231504_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:

0

105

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Number of products with errors:

Test Failed Product Description Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20210421T000839_20210421T001047_C001 Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG CS_OFFL_SIR_IOPM_2_20210421T001053_20210421T001928_C001 Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS_OFFL_SIR_IOPM_2_20210421T002408_20210421T002548_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records.

CS_OFFL_SIR_IOPM_2_20210421T002559_20210421T003534_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_20210421T003726_20210421T004141_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_20210421T004329_20210421T004849_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_20210421T004907_20210421T005113_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_20210421T010002_20210421T011223_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_20210421T011425_20210421T012653_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_20210421T012829_20210421T013133_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_20210421T014713_20210421T014715_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_20210421T015359_20210421T020330_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_20210421T020532_20210421T021253_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_20210421T021400_20210421T022046_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_20210421T022256_20210421T022750_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_20210421T022825_20210421T022941_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_20210421T023553_20210421T023821_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_20210421T025511_20210421T025923_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_20210421T025937_20210421T030206_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_20210421T034336_20210421T035947_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_20210421T040240_20210421T040718_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_20210421T041331_20210421T043638_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_20210421T051317_20210421T053921_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_20210421T054116_20210421T054619_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_20210421T054639_20210421T055003_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_20210421T055248_20210421T062002_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_20210421T062203_20210421T062459_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_20210421T064843_20210421T065658_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_20210421T065700_20210421T071921_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.

C107:00:00112 Additional Traveles Catter Traveles Catter Design Frage States Traveles	CS_OFFL_SIR_IOPM_2_20210421T072056_20210421T072534_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Disport Landom Lando	CS_OFFL_SIR_IOPM_2_20210421T072538_20210421T072910_C001	•	•
CB, CF1, SEL, OPV, 2. 2013/CT306/11 2013/COV ext Alexand Today, SEL ext Alexand Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Ext Alexand Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL CB, CF1, SEL, OPV, 2. 2013/CT306/CF12092-OV Cover Alexand Today, SEL Today, SEL <	CS_OFFL_SIR_IOPM_2_20210421T073224_20210421T080656_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GE: 0.F.L. S.R. (DPL 3. 221 GPT 100007 200 INC 301 GPT 30014 C011 DPL 3.R. (DPL 3. 221 GPT 100006 201 GPT 30014 C011 GE: 0.F.L. S.R. (DPL 3. 227 GPT 100006 201 GPT 30006 C011 DD0 0.R. (DPL 3.R. (DPL 3. 227 GPT 100006 201 GPT 30006 C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 100006 201 GPT 30006 C011) DD0 0.R. (DPL 3.R. (DPL 3. 227 GPT 100006 201 GPT 30006 C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 100006 201 GPT 30006 C011) DD0 0.R. (DPL 3.R. (DPL 3. 227 GPT 100006 201 GPT 30006 C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 10010 20006 201 GPT 30000 (C011) DD0 0.R. (DPL 3.R. (DPL 3. 227 GPT 10010 20006 201 GPT 30000 C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 10010 20006 201 GPT 30000 (C011) DD0 0.R. (DPL 3. 227 GPT 10010 20006 201 GPT 30000 C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 100000 201 GPT 30000 (C011) DD0 0.R. (DPL 3. 227 GPT 10000 201 GPT 30000 C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 100000 201 GPT 30000 (C011) DD0 0.R. (DPL 3. 227 GPT 10000 201 GPT 30000 C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 100000 201 GPT 30000 (C011) DD0 0.R. (DPL 3. 227 GPT 10000 201 GPT 30000 (C011) GE: 0.F.L. S.R. (DPL 3. 227 GPT 100000 201 GPT 30000 (C011) DD0 0.R. (DPL 30000 (C011) (DPL 3000	CS_OFFL_SIR_IOPM_2_20210421T084819_20210421T084935_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS D+, SR (DPL 2, 2015)21103254 2010321103025 (2010)21103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103254 2010321103025 (2010)21103255 (2010)21103025 (2010)21103255 (2010)21103025 (CS_OFFL_SIR_IOPM_2_20210421T085107_20210421T085348_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Contraction Reduction Reduction Reduction Reduction Reduction CS_OFT_SIR_UON_2_2021041100416_202104_100010 Contraction Contraction The	CS_OFFL_SIR_IOPM_2_20210421T085548_20210421T085824_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_DFT_SR_OPF_222194ETT01157_22192ETT011576_222194ETT011576_222194ETT011576_222194ETT011576_222194ETT011576_222194ETT01576_222194ET0	CS_OFFL_SIR_IOPM_2_20210421T090040_20210421T090601_C001	C	
CS_OFFL_SR_OFFL_2021021103356_2021012110357 and Backsatter Cubity COG and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_2021021103356_2021012110021_COD1 and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_2021021103156_2021012110021_COD1 and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_2021012110157_2021012110032_COD1 Coen Adminet Reage and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_2021012110157_20210121110078_COD1 Coen Adminet Reage and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_20210121110157_20210121110078_COD1 Coen Adminet Reage and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_20210121110158_20210121110078_COD1 Coen Adminet Reage and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_20210121110158_20210121110178_COD1 Coen Adminet Reage and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_20210121110158_20210121110178_COD1 Coen Adminet Reage and Backsatter Cubity Flags and Ta COCO Adminet Reage and Backsatter Cubity Flags CS_OFFL_SR_OFFL_2021012111011012_20210121110178_COD1 Coen Adminet Reage and Backsatter Cubity Flags and Cubity Fla	CS_OFFL_SIR_IOPM_2_20210421T091151_20210421T093410_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_UPP_2_2021047110858_20210421110205_0001 and Bisoccatter Duality_DOCG CS_OFFL_SR_UPP_2_2021047110857_20210421110205_0001 and Bisoccatter Duality_High Text setup CS_OFFL_SR_UPP_2_20210421110257_20210421110205_0001 and Bisoccatter Duality_High Text setup CS_OFFL_SR_UPP_2_20210421110256_0001041110205_0001 and Bisoccatter Duality_High Text setup CS_OFFL_SR_UPP_2_20210421110256_0001041110205_0001 and Bisoccatter Duality_High Text setup CS_OFFL_SR_UPP_2_20210421110256_00010411102000_0001 COCG Alteret Range SIM_SIM To OCCIDA Atteret Range and Bisoccatter Duality High Text setup CS_OFFL_SR_UPP_2_20210421110256_000104211102000_0001 COCG Alteret Range Bullity_OCCID To OCCIDA Atteret Range and Bisoccatter Duality High Text setup CS_OFFL_SR_UPP_2_20210421110256_000104211110200_0001 COCG Alteret Range Bullity_OCCID To OCCIDA Atteret Range and Bisoccatter Duality High Text setup CS_OFFL_SR_UPP_2_20210421110556_000104211110201_0001 COCG Alteret Range Bullity_OCCID To OCCIDA Atteret Range Bullity_OCCID CS_OFFL_SR_UPP_2_20210421110556_000104211110202_0001 COCG Alteret Range Bullity_OCCID To OCCIDA Atteret Range Bullity_OCCID CS_OFFL_SR_UPP_2_20210421110256_000104211110242_0001 COCG Alteret Range Bullity_OCCID To OCCIDA Atteret Range Bullity_OCCID CS_OFFL_SR_UPP_2_202104211110257_00210111110242_0001 COCG Alteret Range Bullity_OCCID To OCCIDA Atteret Range Bullity_OCCID CS_OFFL_SR_UPP_2_202104211110257_002102111110242_0001	CS_OFFL_SIR_IOPM_2_20210421T093656_20210421T094559_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C5. OFFL_SR_JOPV_2_3220421T10317_20210421T10236_0001 and Burkestern-Dunking, COOG and Hom COOG Additional Range, SR-S, SVH, SVH and Buckester Ounling Flags have been Adtivitier Range and Buckester Ounling Flags have been adtivitier on our more records. C5. OFFL_SR_JOPV_2_20210421T10450_2001 Occon Adtivitier Range and Buckester Ounling Flags have been adtivitier on our more records. C5. OFFL_SR_JOPV_2_20210421T10450_20101 Occon Adtivitier Range, SR-SNH, SVH and Buckester Ounling Flags have been adtivitier on our more records. C5. OFFL_SR_JOPV_2_20210421T10500_20101 Occon Adtivitier Range, SR-SNH, SVH and Buckester Ounling Flags have been adtivitier on our more records. C5. OFFL_SR_JOPV_2_20210421T10570_20101 Ocean Adtivitier Range, SR-SNH, SVH and Buckester Ounling Flags have been adtivitier on our more records. C5. OFFL_SR_JOPV_2_20210421T10570_20101 Ocean Adtivitier Range additecture ounling Flags have been adtivitier Range additecture ounling Flags have been adtivitier Range additecture Counling Flags have been adtivitier Range additecture ounling Flags have been adtinter Range StHA, SVH and Buckester Ounling Flags have been adtivi	CS_OFFL_SIR_IOPM_2_20210421T095836_20210421T100219_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2.202104211102453_02104211103738_02001 and backbacter Quality Flags have been set broken or more records. CS_OFFL_SIR_JOPM_2.202104211103108_02104211103708_02001 OCOC Altmeter Range Quality. Cococ Altmeter Range. SHA, SVH and Backscatter Quality. Flags have been set to row or more records. CS_OFFL_SIR_JOPM_2.202104211110512_202104211110240_C001 Ocean Altmeter Range QUAIITY. OCOC Altmeter Range. SHA, SVH and Backscatter Quality. Flags have been alter or an or more records. CS_OFFL_SIR_JOPM_2.202104211110512_202104211110240_C001 Ocean Altmeter Range QUAIITY. SUH and Backscatter Quality. Flags have been alter or an or more records. CS_OFFL_SIR_JOPM_2.202104211110212_202104211110240_C001 Ocean Altmeter Range. SHA, SVH and Backscatter Quality. Flags have been alter or an or more records. CS_OFFL_SIR_JOPM_2.202104211110240_202104211110240_C001 Ocean Altmeter Range. SHA, SVH and Backscatter Quality. Flags have been alter or an or more records. CS_OFFL_SIR_JOPM_2.202104211112246_202104211112450_C001 Ocean Altmeter	CS_OFFL_SIR_IOPM_2_20210421T101817_20210421T102305_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_CSR_OPPL_2.0010421110449E_CXX10421110450E_CX01 Biodisorder Quality For one or more records. CS_OFFL_SIR_JOPPL_2.202104211105106_202104211105710_C001 Ocean Altimeter Range, SSHA. SWH Imb COOG Altimeter Range, SSHA. SW	CS_OFFL_SIR_IOPM_2_20210421T102453_20210421T103738_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210421110510_20210421110570_0001 and backscatter Quality. COCG Ammeer Range and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been Ammeer Range. SSHA, SWH and Backscatter Quality. Flags have been at for one or more records. CS_OFFL_SIR_IOPM_2_20210421112240_0011 Ocean Atimeter Range. SSHA, SWH and Backscatter Quality. COCG Backscatter Quality. COCG Atimeter Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_202104211122710_202104211122408_C001 OCCG Atimeter Range. SSHA, SWH and Backscatter Quality. COCG Atimeter Range and Backscatter Quality. COCG Atimeter Range and Backscatter Quality. COCG Atimeter Range. SSHA, SWH and Backscatter Quality. COCG Atimeter Range. SSHA, SWH and Backscatter Quality. COCG Atimeter Range. SSHA, SWH and Backscatter Q	CS_OFFL_SIR_IOPM_2_20210421T104049_20210421T104502_C001	C	
CS_OFFL_SIR_IOPM_2_20210421T10270_02010421T10280_C001 and Backscatter Quality COOG Attimeter Range and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality Flags have been and the OCOG Attimeter Range and Backscatter Quality Flags have been and the OCOG Attimeter Range and Backscatter Quality Flags have been and backscatter Quality Flags have been and and backscatter Quality Flags have been and backscatter Quality	CS_OFFL_SIR_IOPM_2_20210421T105106_20210421T105710_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20210421T112342_001 and Backscatter Quality, OCOG and the OCOG Altmeter Range and Backscatter Quality, Flags have been CS_OFFL_SIR_JOPM_2_20210421T114248_02010421T114246_001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_JOPM_2_20210421T114248_02010421T114246_001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_JOPM_2_20210421T114246_001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_JOPM_2_20210421T112242_001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_JOPM_2_20210421T122245_001 OCOG Altimeter Range Class, SSHA, SWH The Ocean Altimeter Range CS_OFFL_SIR_JOPM_2_20210421T122215_0210421T122408_001 OCOG Altimeter Range Quality, OCOG The OCCIG Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_JOPM_2_20210421T122716_20210421T122763_0011 OCCIG Altimeter Range Quality, OCOG The OCCIG Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_JOPM_2_20210421T123763_0210421T123763_0011 Ocean Altimeter Range, SSHA, SWH The OCCIG Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_JOPM_2_20210421T123763_0210421T123763_0011 Ocean Altimeter Range, SSHA, SWH The OCCIG Altimeter Range SSHA, SWH CS_OFFL_SIR_JOPM_2_20210421T123763_0011 Ocean Al	CS_OFFL_SIR_IOPM_2_20210421T105720_20210421T110250_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20210421T114248_20210421T114816_C001 and Backacatter Quality State Range and Backacatter Quality set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T114947_20210421T121242_C001 Ocean Altimeter Range, SSHA, SWH and Backacatter Quality set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T112215_20210421T122408_C001 Ocean Altimeter Range Quality, OCOG Himeter Range and Backacatter Quality set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T122215_20210421T122408_C001 OCOG Altimeter Range Quality, OCOG Backacatter Quality Set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T122716_20210421T122838_C001 OCOG Altimeter Range Quality, OCOG Backacatter Quality, COCO Backacatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T122716_20210421T122838_C001 OCOG Altimeter Range, SSHA, SWH and Backacatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T123703_20210421T123753_C001 Ocean Altimeter Range, SSHA, SWH and Backacatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T123758_20210421T124700_C001 Ocean Altimeter Range, SSHA, SWH and Backacatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T132754_20210421T131934_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backacatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20210421T132754_20210421T132753_C001 Ocean Altimeter Range Albackacatter Quality Flags have been set for one or more recor	CS_OFFL_SIR_IOPM_2_20210421T110512_20210421T112342_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS. OFFL_SIR_IOPM 2_20210421T11242_C001 and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_IOPM_2_20210421T122215_20210421T122408_C001 COCOG 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_20210421T122716_20210421T122836_C001 COCOG 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_20210421T123705_C001 Cocoa Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality 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, 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 altimeter Range and Backscatter Quality F	CS_OFFL_SIR_IOPM_2_20210421T114248_20210421T114816_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210421T122716_20210421T122836_C001 Backscatter Quality CCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20210421T122716_20210421T122836_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20210421T123103_20210421T123753_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210421T123758_20210421T124700_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210421T131612_20210421T13494_C001 Ocean Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210421T131612_20210421T131934_C001 OCOG Altimeter Range and Backscatter Quality. OCOG Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210421T132154_20210421T132733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20210421T13200_20210	CS_OFFL_SIR_IOPM_2_20210421T114947_20210421T121242_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210421T122705_0001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20210421T123103_20210421T123753_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_20210421T131612_20210421T131934_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_20210421T132154_20210421T132733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter	CS_OFFL_SIR_IOPM_2_20210421T122215_20210421T122408_C001	•	
CS_OFFL_SIR_IOPM_2_20210421T123103_20210421T123753_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, 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_20210421T131612_20210421T131934_C001OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOGThe OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20210421T132154_20210421T132733_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags had backscatter	CS_OFFL_SIR_IOPM_2_20210421T122716_20210421T122836_C001	C P	
CS_OFFL_SIR_IOPM_2_20210421T123758_20210421T124700_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20210421T131612_20210421T131934_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20210421T132154_20210421T132733_C001Ocean 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, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the 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_20210421T132900_20210421T133715_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20210421T13434_20210421T13545_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOGCS_OFFL_SIR_IOPM_2_20210421T13434_20210421T135435_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and th	CS_OFFL_SIR_IOPM_2_20210421T123103_20210421T123753_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210421T131612_20210421T131934_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20210421T132154_20210421T132733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags ard 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, 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 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 and the OCOG Altimeter Range 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 Backscatter Quality, OCOG and Backscatter Quality Flags and Backscatter Quality, OCOG	CS_OFFL_SIR_IOPM_2_20210421T123758_20210421T124700_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210421T132154_20210421T132733_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20210421T132900_20210421T133715_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the 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 and the OCOG Altimeter Range 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, 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<	CS_OFFL_SIR_IOPM_2_20210421T131612_20210421T131934_C001	C P	
CS_OFFL_SIR_IOPM_2_20210421T132900_20210421T133715_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20210421T134334_20210421T135435_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and Backscatter Quality, OCOG 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, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20210421T132154_20210421T132733_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210421T134334_20210421T135435_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20210421T132900_20210421T133715_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20210421T134334_20210421T135435_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20210421T135454_20210421T135508_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_20210421T140358_20210421T140819_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_20210421T141008_20210421T141704_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_20210421T141820_20210421T142459_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_20210421T142844_20210421T144157_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_20210421T150816_20210421T151044_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_20210421T151207_20210421T151508_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_20210421T151603_20210421T151613_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_20210421T152017_20210421T153603_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_20210421T153853_20210421T154727_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_20210421T154946_20210421T161229_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_20210421T165139_20210421T171511_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_20210421T172053_20210421T172530_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_20210421T172839_20210421T173231_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_20210421T173354_20210421T175332_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_20210421T182719_20210421T185411_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_20210421T190011_20210421T190605_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_20210421T190739_20210421T192929_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_20210421T192933_20210421T193202_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_20210421T194500_20210421T194609_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_20210421T195843_20210421T203313_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_20210421T203919_20210421T204437_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_20210421T204626_20210421T204916_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_20210421T205115_20210421T205302_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_20210421T211839_20210421T211902_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_20210421T212212_20210421T212612_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_20210421T213845_20210421T214724_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_20210421T215010_20210421T221226_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_20210421T221806_20210421T221922_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_20210421T222533_20210421T223841_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_20210421T224028_20210421T224643_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_20210421T224820_20210421T225304_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_20210421T231756_20210421T235057_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_20210421T235310_20210421T235821_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210421T022941_20210421T023553_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_20210421T085914_20210421T090040_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210421T140323_20210421T140358_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210421T180539_20210421T180637_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_20210421T195541_20210421T195652_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210421T205646_20210421T205650_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210421T021253_20210421T021400_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_20210421T022750_20210421T022753_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210421T034129_20210421T034129_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210421T062002_20210421T062203_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_20210421T064143_20210421T064300_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210421T082351_20210421T082404_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210421T102306_20210421T102453_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

Number of products with errors:

Product	Test Failed	Description
CS OFEL SIR IOPN 2 20210/21T013151 20210/21T013658 C001	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_20210421T014959_20210421T015359_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

GS_OFFL_SR_IOPN_2_20210421T022541_20210421T025554_20210 and Backstater Quality PURPS_10025 The Ocean Altered Rage, SSHA, SWH and Backstater Quality Purps_ and zone or market. GS_OFFL_SR_IOPN_2_20210421T025541_20210421T025552_20210 COCG Altimeter Rage Quality PURM, COCG Backstater Quality Purps_ COCG Backstater Quality Purps_ and zone or market. The OCOG Range and Backstater Quality Purps_ table zone or market. GS_OFFL_SR_IOPN_2_20210421T025551_20210421T025552_20210 COCG Altimeter Rage Quality PURM, COCG Backstater Quality Purps_ COCG Backstater Quality Purps_ COCG Backstater Quality Purps_ COCG Altimeter Rage, SSHA, SWH and Backstater Quality Purps_ COCG Derive and State Coulity Purps_ COCG Derive and State Coulity Purps_ COCG Backstater Quality Purps_ COCG Derive and State Coulity Purps_ COCG Derive and Coulity Purps_ COCG Derive and Rest Coulity Purps_
CS OPEC SIRE JORY 2. 202106211030651.202104211030614.C0201 OCCOG Backscatter Quality Imore records. CS_OFFL_SIR_JOPN 2.202106211030651.202104211030614.C0201 OCCOG Attimuter Range Quality PLRM. The OCCID Range and Backscatter Quality Flags have been set for an or rows records. CS_OFFL_SIR_JOPN 2.202104211031642_C021 OCCOG Attimuter Range.SIRA.SWH and Backscatter Quality Flags have been set for an or rows records. The OCCID Range and Backscatter Quality Flags have been set for an or rows records. CS_OFFL_SIR_JOPN 2.20210421104606_20210421104606_C021 OCCCO Attimuter Range.SIRA.SWH and Backscatter Quality Flags have been set for an or rows records. The OCCID Range and Backscatter Quality Flags have been set for an or rows records. CS_OFFL_SIR_JOPN 2.20210421106606_202104211066057 OCCCO OCCCO Attimuter Range.Quality Flags have been set for an or row records. CS_OFFL_SIR_JOPN 2.20210421106606_202104211066057 OCCCO OCCCO Attimuter Range.SIRA, SWH and Backscatter Quality Flags have been set for an or row records. CS_OFFL_SIR_JOPN 2.20210421106606_202104211066119_C001 OCCCO Attimuter Range.SIRA, SWH and Backscatter Quality Flags have been set for an or row records. CS_OFFL_SIR_JOPN 2.20210421106606_202104211066119_C001 OCCCO Attimuter Range SIRA, SWH and Backscatter Quality Flags have been set for an or row records. CS_OFFL_SIR_JOPN 2.20210421106806_20210421106810_C001 OCCCO Attimuter Range SIRA, SWH and Backscatter Quality Flags have been set for
CS OPEL SIN LOPPL 2: AD2100211030801 202100211030801 202100211030801 20210021103138 COCO Backaceter Quality Flags more records. CS OFFL_SIR_IOPN_2: 20210221103138 202102211032148 202102211032148 202102210221022102210221022102210221022
GS_OFFL_SIR_JOPN_2_20210421T03139_20210421T031545_C001 and Backscatter Quality FLMA COCO Attreeter Range SMA, SWH and Backscatter Quality FLMA COCOG Backscatter Quality FLMA COCO Attreeter Range and Backscatter Quality FLMA and Backscatter Quality FLMA COCO Attreeter Range and Backscatter Quality FLMA Attreeter Range and Backscatter Quality FLMA COCO Attreeter Range SMA, SWH and Backscatter Quality FLM
CS_OFFL_SIR_JOPN_2_20210421T045018_20210421T045408_C001 and Backscatter Quality FLRM_COOM Ind CooR Antenet Range and Backscatter Quality FLRM_COOM CS_OFFL_SIR_JOPN_2_20210421T065055_20210421T065057_C001 CCOG Altimeter Range Quality FLRM, COOM The OCOG Range and Backscatter Quality Flags have ben set for or more records. CS_OFFL_SIR_JOPN_2_20210421T055004_20210421T055119_C001 CCOG Altimeter Range Quality FLRM, COCM The OCOG Range and Backscatter Quality Flags have ben set for or more records. CS_OFFL_SIR_JOPN_2_20210421T055004_20210421T055119_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, COCG The OCOG Range and Backscatter Quality Flags have ben set for or more records. CS_OFFL_SIR_JOPN_2_20210421T055004_20210421T055119_C001 CCOG Backscatter Quality FLRM, COCG The OCOG Range and Backscatter Quality Flags have ben set for or more records. CS_OFFL_SIR_JOPN_2_20210421T052469_20210421T053101_C001 OCOG Backscatter Quality FLRM, COCG The OCOG Range and Backscatter Quality Flags have ben set for or more records. CS_OFFL_SIR_JOPN_2_20210421T052469_20210421T052852_C001 OCOG Backscatter Quality FLRM, DCOC The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20210421T072926_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20210421T072910_20210421T0729027_C001 O
CS_OFFL_SIR_IOPN_2_202104211080083_0001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_202104211053959_202104211054115_C001 OCOG Attimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_202104211055004_202104211055118_C001 Ocoan Attimeter Range Quality PLRM. otoGG Backscatter Quality PLRM. The Ocean Attimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_202104211052059_202104211063910_C001 Ocoan Attimeter Range Quality PLRM. The OCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_202104211063945_202104211063952_C001 Ocoan Attimeter Range Quality PLRM. The Ocean Attimeter Range SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_2021042110703945_202104211072056_C001 Ocoan Attimeter Range Quality PLRM. The Ocean Attimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_202104211072910_202104211072056_C001 OCOG Backscatter Quality PLRM. CCG Backscatter Quality PLRM
CS_OFFL_SIR_IOPN_2_20210421103359_202104211034115_C001 OCOG Backscatter Quality Inore records. CS_OFFL_SIR_IOPN_2_202104211055004_202104211055119_C001 Cocan Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for on core records. CS_OFFL_SIR_IOPN_2_202104211062459_202104211063101_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on core records. The OCGG Range and Backscatter Quality Flags have been set for on core records. CS_OFFL_SIR_IOPN_2_202104211063845_202104211063852_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on core or more records. CS_OFFL_SIR_IOPN_2_202104211071932_202104211072056_C001 OccoG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for on more records. CS_OFFL_SIR_IOPN_2_202104211072910_202104211072056_C001 OCCOG Altimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for on more records. CS_OFFL_SIR_IOPN_2_202104211072910_202104211073027_C001 OCCOG Altimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for on more records. CS_OFFL_SIR_IOPN_2_202104211082251_C001 OCCOG Altimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for on more records. CS_OFFL_SIR_IOPN_2_202104211082254_C001 OCCG Altimeter Range Quality PLRM, OCCG And Backscatter Quality Flags have been set for on more records. CS_OFFL_SIR_IOPN_2_202104211082876_202104211082824_C001
CS_OFFL_SIR_IOPN_2_20210421T055004_20210421T055119_C001 and Backscatter Range and Backscatter Quality PLRM, COOG Altimeter Range and Backscatter Quality PLRM, COOG Altimeter Range and Backscatter Quality PLRM, COOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T063459_20210421T0633652_C001 OCOG Altimeter Range Quality PLRM, COOG Altimeter Range and Backscatter Quality PLRM The OCOG Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T063845_20210421T063852_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T071932_20210421T072056_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T072910_20210421T073027_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082244_20210421T082351_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082575_20210421T082824_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082877_2021042
CS_OFFL_SIR_IOPN_2_20210421T08249_20210421T08310T_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20210421T063845_20210421T063852_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T071932_20210421T072056_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T072910_20210421T073027_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T072910_20210421T073027_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082244_20210421T082351_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082756_20210421T082824_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T108287_20210421T104049_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_
CS_OFFL_SIR_IOPN_2_20210421T063845_20210421T063852_C001 and Backscatter Quality PLRM, OCCG Attimeter Range and Backscatter Quality Flags have be and the OCCG Attimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T071932_20210421T072056_C001 OCCG Attimeter Range Quality PLRM, OCCG Backscatter Quality PLRM, OCCG Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T072910_20210421T073027_C001 OCCG Attimeter Range Quality PLRM, OCCG Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082244_20210421T082351_C001 OCCG Attimeter Range Quality PLRM, OCCG Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082256_20210421T082351_C001 OCCG Attimeter Range Quality PLRM, OCCG Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082756_20210421T082824_C001 OCCG Attimeter Range Quality PLRM, OCCG Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T103857_20210421T104049_C001 OCCG Attimeter Range, SSHA, SWH and Backscatter Quality The OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have b attimeter Range and Backscatter Quality CS_OFFL_SIR_IOPN_2_20210421T104034_20210421
CS_OFFL_SIR_IOPN_2_202104211071932_202104211072056_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20210421T072910_20210421T073027_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082244_20210421T082351_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082756_20210421T082824_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082756_20210421T082824_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T108287_0210421T104049_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Oce
CS_OFFL_SIR_IOPN_2_20210421T072910_20210421T073027_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20210421T082244_20210421T082351_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T082756_20210421T082824_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T103857_20210421T104049_C001 OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. The OCean Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T103857_20210421T104049_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T114034_20210421T114126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T114034_20210421T114126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_202104211082244_202104211082351_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20210421T082756_20210421T082824_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20210421T103857_20210421T104049_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPN_2_20210421T114034_20210431T114034_20210431T114034_20210431T114034_20210421T114034_2021
CS_OFFL_SIR_IOPN_2_20210421T082756_20210421T082824_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20210421T103857_20210421T104049_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have b set for one or more records. CS_OFFL_SIR_IOPN_2_20210421T114034_20210421T114034_20210421T114126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b set for one or more records.
CS_OFFL_SIR_IOPN_2_20210421T103857_20210421T104049_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b and Backscatter Quality PLRM, OCOG Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b and Backscatter Quality PLRM, OCOG and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b and Backscatter Quality PLRM, OCOG
and Backscatter Quality Flags have b
PLRM
CS_OFFL_SIR_IOPN_2_20210421T121940_20210421T122215_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OC
CS_OFFL_SIR_IOPN_2_20210421T122836_20210421T123034_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for or more records.
CS_OFFL_SIR_IOPN_2_20210421T130037_20210421T130133_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for or more records.
CS_OFFL_SIR_IOPN_2_20210421T131934_20210421T132142_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for or more records.
CS_OFFL_SIR_IOPN_2_20210421T135508_20210421T140104_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COCOG Backscatter Quality OCOG Backscatter Quality COCOG Backscatter QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL
CS_OFFL_SIR_IOPN_2_20210421T140819_20210421T140957_C001 Ocean Altimeter Range, SSHA, SWH Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
CS_OFFL_SIR_IOPN_2_20210421T144914_20210421T145011_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. Ocog Altimeter Range and Backscatter Quality Flags have b set for one or more records.
CS_OFFL_SIR_IOPN_2_20210421T145417_20210421T145630_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality More records.
CS_OFFL_SIR_IOPN_2_20210421T145757_20210421T150021_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COCOG Backscatter Quality More records.
CS_OFFL_SIR_IOPN_2_20210421T150213_20210421T150335_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality More records.

CS_OFFL_SIR_IOPN_2_20210421T151044_20210421T151206_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_20210421T151656_20210421T152017_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_20210421T161409_20210421T161731_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_20210421T163331_20210421T163821_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_20210421T190605_20210421T190732_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_20210421T204437_20210421T204551_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_20210421T212045_20210421T212212_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_20210421T221424_20210421T221806_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_20210421T222335_20210421T222500_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_20210421T230130_20210421T230215_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_20210421T230352_20210421T230715_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_20210421T235128_20210421T235310_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_20210420T235744_20210421T000502_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_20210421T005328_20210421T010002_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_20210421T011223_20210421T011425_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_20210421T013659_20210421T014422_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_20210421T020330_20210421T020532_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_20210421T021253_20210421T021400_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_20210421T023821_20210421T024108_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_20210421T030814_20210421T031139_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_20210421T031545_20210421T032145_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_20210421T033657_20210421T034115_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_20210421T034132_20210421T034336_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_20210421T045408_20210421T050237_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_20210421T050859_20210421T050949_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_20210421T055120_20210421T055248_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags				
CS_OFFL_SIR_IOPR_2_20210421T063101_20210421T063845_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been				
CS_OFFL_SIR_IOPR_2_20210421T064039_20210421T064136_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_20210421T073027_20210421T073223_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_20210421T080824_20210421T080900_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_20210421T081034_20210421T081654_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_20210421T081654_20210421T082011_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_20210421T082146_20210421T082243_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_20210421T094559_20210421T095554_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_20210421T095554_20210421T095730_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_20210421T100327_20210421T100538_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_20210421T104831_20210421T105106_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_20210421T112425_20210421T112606_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_20210421T112826_20210421T113452_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_20210421T113633_20210421T114034_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_20210421T121242_20210421T121940_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_20210421T130215_20210421T130225_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_20210421T130741_20210421T130937_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_20210421T130937_20210421T131450_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_20210421T133716_20210421T133929_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_20210421T144756_20210421T144806_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_20210421T144828_20210421T144914_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_20210421T145011_20210421T145417_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_20210421T145630_20210421T145757_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_20210421T153603_20210421T153708_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_20210421T162648_20210421T163331_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_20210421T163914_20210421T164059_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_20210421T171511_20210421T171643_C001	LAITIMPTER Rande and Backscatter (Juality)	The Ocean Altimeter Range, SSHA, SWH 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_20210421T180422_20210421T180538_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_20210421T180637_20210421T180814_C001	Altimeter Rande and Backscatter (Juality)	The Ocean Altimeter Range, SSHA, SWH 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_20210421T180837_20210421T181357_C001	LAITIMETER Rande and Backscatter Ullality	The Ocean Altimeter Range, SSHA, SWH 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_20210421T193642_20210421T193845_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_20210421T194203_20210421T194405_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_20210421T194744_20210421T195541_C001	Laitimeter Rande and Backscatter Ullality	The Ocean Altimeter Range, SSHA, SWH 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_20210421T203313_20210421T203607_C001	Altimeter Rande 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_20210421T211341_20210421T211707_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_20210421T211902_20210421T212045_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_20210421T212612_20210421T213516_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_20210421T213637_20210421T213845_C001	Laltimeter Rande and Backscatter (Juality)	The Ocean Altimeter Range, SSHA, SWH 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_20210421T221226_20210421T221423_C001	LAITIMETER 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_20210421T230001_20210421T230130_C001	Altimeter Rande 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_20210421T230216_20210421T230352_C001	Latimeter Rande and Backscatter Ullality	The Ocean Altimeter Range, SSHA, SWH 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_20210421T230715_20210421T231504_C001	Altimeter Rande 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_20210421T231624_20210421T231756_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

204

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

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

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:

146

70

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).

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210420T235911_20210421T004847_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_220210421T004847_20210421T013825_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_220210421T013825_20210421T022802_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_220210421T022802_20210421T031740_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_220210421T031740_20210421T040716_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_220210421T040716_20210421T045655_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_220210421T045655_20210421T054631_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_220210421T054631_20210421T063609_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_220210421T063609_20210421T072546_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_220210421T072546_20210421T081524_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_220210421T081524_20210421T090500_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_220210421T090500_20210421T095439_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_220210421T095439_20210421T104415_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_220210421T104415_20210421T113353_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_220210421T113353_20210421T122330_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_220210421T122330_20210421T131308_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_220210421T131308_20210421T140244_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210421T140244_20210421T145223_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_220210421T145223_20210421T154159_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220210421T154159_20210421T163137_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_220210421T163137_20210421T172114_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_220210421T172114_20210421T181052_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_220210421T181052_20210421T190028_C001	Tide (FES) Non-Equilibrium Long Period	Topography (solution 1), and tidal corrections for one or more records

CS_OFFL_SIR_IOP_220210421T190028_20210421T195007_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_220210421T195007_20210421T203943_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_220210421T203943_20210421T212921_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_220210421T212921_20210421T221858_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_220210421T221858_20210421T230836_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_220210421T230836_20210421T235812_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

0

29

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:

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: 29										
6.8 P2P Ocean Retracking Quality Check										
P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retracking quality	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	s currently set for products IOPR and IOPN products over sea ice, but this is to be expected.									
Number of products with errors:	28									
P2P Retracking Flags PLRM										
CryoSat L2 data includes an ocean retracking quality	flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.									
Ocean Retracking Quality Flag (PLRM): This flag is	s currently set for products IOPR and IOPN products over sea ice, but this is to be expected.									
Number of products with errors:	29									

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	202	202	6	196	0
SIR_IOPR1B	147	108	3	105	0
SIR_IOPN1B	108	147	0	147	0
SIR_IOPM_2	202	202	136	66	0
SIR_IOPR_2	147	108	43	65	0
SIR_IOPN_2	108	147	60	85	2
SIR_IOP_P2P	29	29	0	27	2

7.1 QCC Errors

Product Type RLC	OBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_IOPR_2	2	1	2	2	1	2					

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	2	2	2	2							

Test Description Key:					
Abbreviation	Test name	Details			
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7			
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6			
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7			
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7			
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6			
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7			

7.2 QCC Warnings

Number of QCC reports with warnings

2321

			Total n	umber 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	49	48	0	49	0
SIR_IOPN1B	104	0	0	0	0	0	0
SIR_IOPN_2	0	0	11	34	4	28	29
SIR_IOPR1B	142	0	0	0	0	0	0
SIR_IOPR_2	0	2	36	46	0	29	28

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	41	39	0	0	0	0	31
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	23	0	0	22	0	35	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	13	0	46	0	52	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	0	8	32	0	5	39
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	28	19	36	50	28	26
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	45	0	1	65	30	14	38

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	1	0	0	0	0
SIR_IOPM_2	0	2	1	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	49	3
SIR_IOPN_2	30	11	0	1	2	0	0
SIR_IOPR1B	0	0	0	0	0	147	12
SIR_IOPR_2	47	0	0	0	10	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	16	29	29	4	29	17	29

Product Type	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOP_2_	17		22		29		26

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	-
SIR_IOP_2_	29	18	11	29			

Test Description Key		Deteile
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	F RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRN NCDF	A 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
RPEPOPFDLRMNCD	F RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAF NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	N RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	F 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
RSSHAOFDPLRMNCI F	D 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
	IC RangeSignificantWayeHeightOceanExcludingPolarED2PL RMNetCDE	The significant wave beight should be between 0mm and 15000mm (or missing) for surface type – ocean for

RSWHOEPFDPLRMNC		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: