

1. Overview

Report Production:	06-Mar-2023	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

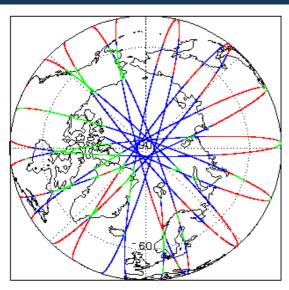
We would love to hear from you!

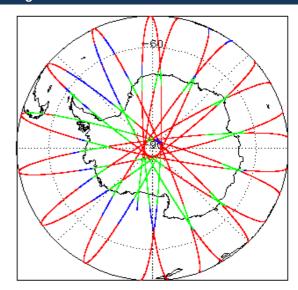
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

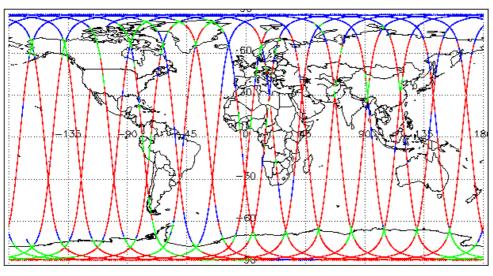
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

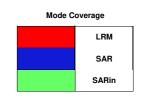
Missio	on / Instru	ment News
28-F	eb-2023	None
01-N	Mar-2023	None
02-N	Mar-2023	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

Number of products with errors:

(

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW undate

Number of products with errors:

0

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. The table provides the full list of products flagged.

Number of products with errors:

14

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20230301T173123_20230301T174005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230301T233215_20230301T233408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T031636_20230301T031756_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T035632_20230301T035808_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T045551_20230301T045656_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T063505_20230301T064011_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T112346_20230301T112437_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T162142_20230301T162255_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T162457_20230301T162650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T193759_20230301T194408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230301T211701_20230301T212110_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230301T062803_20230301T062918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230301T080847_20230301T081000_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230301T154318_20230301T154907_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

٥

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:

٥

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records

CS_OFFL_SIR_IOPM_2_20230301T195332_20230301T195417_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T004028_20230301T004142_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T004644_20230301T005003_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_20230301T022120_20230301T022356_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_20230301T022550_20230301T023216_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_20230301T031636_20230301T031756_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_20230301T035859_20230301T040252_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_20230301T045551_20230301T045656_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_20230301T053852_20230301T054048_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T054907_20230301T055055_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T063505_20230301T064011_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_20230301T071825_20230301T071944_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T085953_20230301T090152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20230301T103739_20230301T104101_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_20230301T104626_20230301T104744_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T113627_20230301T113954_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T121638_20230301T121958_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_20230301T130612_20230301T130856_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_20230301T140353_20230301T140522_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_20230301T154114_20230301T154318_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_20230301T162650_20230301T162713_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_20230301T172813_20230301T173123_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20230301T180123_20230301T180544_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T190047_20230301T190254_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T193759_20230301T194408_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T221008_20230301T221133_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T234938_20230301T235104_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230301T235617_20230301T235918_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_20230301T012943_20230301T013637_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_20230301T013637_20230301T014227_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_20230301T030921_20230301T031527_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_20230301T031527_20230301T031635_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_20230301T035809_20230301T035859_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records

CS_OFFL_SIR_IOPR_2_20230301T042718_20230301T042837_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T044924_20230301T045014_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045328_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_20230301T045328_20230301T045551_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_20230301T050458_20230301T050553_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_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_20230301T071718_20230301T071825_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_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_20230301T093820_20230301T093854_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T094414_20230301T094546_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T094725_20230301T095728_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_20230301T112759_20230301T113627_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_20230301T130856_20230301T131640_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_20230301T144758_20230301T145346_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_20230301T162713_20230301T163355_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_20230301T180544_20230301T181105_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_20230301T194408_20230301T195139_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_20230301T195139_20230301T195332_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230301T2121111_20230301T212848_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_20230301T230026_20230301T230711_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_20230301T230711_20230301T231018_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230301T000035_20230301T000304_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_20230301T001949_20230301T003930_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_20230301T004143_20230301T004644_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_20230301T005210_20230301T012547_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_20230301T015126_20230301T021421_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_20230301T023226_20230301T024800_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_20230301T024823_20230301T025012_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_20230301T025454_20230301T030311_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_20230301T030827_20230301T030847_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_20230301T032224_20230301T033853_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_20230301T034107_20230301T035543_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_20230301T040551_20230301T041004_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_20230301T041140_20230301T042415_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_20230301T042440_20230301T042717_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_20230301T042929_20230301T043839_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_20230301T044022_20230301T044313_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_20230301T044316_20230301T044337_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_20230301T050650_20230301T051629_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_20230301T052319_20230301T053815_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_20230301T054048_20230301T054907_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_20230301T055109_20230301T060806_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_20230301T062208_20230301T062249_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_20230301T065005_20230301T065327_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_20230301T065329_20230301T071717_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_20230301T072228_20230301T072733_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_20230301T073013_20230301T075550_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_20230301T082747_20230301T085607_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_20230301T090152_20230301T090754_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_20230301T090925_20230301T093755_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_20230301T094546_20230301T094725_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_20230301T100054_20230301T103508_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_20230301T104101_20230301T104626_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_20230301T104800_20230301T105419_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_20230301T111829_20230301T111923_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_20230301T112437_20230301T112758_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_20230301T114036_20230301T114904_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_20230301T115149_20230301T121441_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_20230301T121958_20230301T122105_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_20230301T122110_20230301T122518_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_20230301T122645_20230301T124059_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_20230301T124211_20230301T124654_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_20230301T125615_20230301T125639_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_20230301T131901_20230301T135259_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_20230301T135509_20230301T140004_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_20230301T140609_20230301T140818_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_20230301T141105_20230301T144232_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_20230301T144438_20230301T144655_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_20230301T150229_20230301T150945_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_20230301T151426_20230301T151512_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_20230301T151518_20230301T153212_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_20230301T153350_20230301T153903_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_20230301T154907_20230301T160245_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_20230301T160608_20230301T161621_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_20230301T164427_20230301T165447_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_20230301T165627_20230301T1711118_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_20230301T171314_20230301T171815_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_20230301T171854_20230301T171956_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_20230301T173123_20230301T174005_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_20230301T174351_20230301T174839_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_20230301T175122_20230301T175708_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_20230301T182726_20230301T185033_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_20230301T185349_20230301T185733_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_20230301T190339_20230301T192949_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_20230301T200414_20230301T202957_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_20230301T203131_20230301T203648_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_20230301T203655_20230301T204021_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_20230301T204310_20230301T211701_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_20230301T213347_20230301T213703_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_20230301T213737_20230301T213928_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_20230301T214103_20230301T215858_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_20230301T220323_20230301T220951_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_20230301T221133_20230301T221723_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_20230301T222233_20230301T225624_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_20230301T233215_20230301T233408_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_20230301T233616_20230301T234937_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_20230301T235104_20230301T235616_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_20230301T001700_20230301T001949_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_20230301T014227_20230301T014239_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_20230301T051808_20230301T052319_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_20230301T061552_20230301T061939_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_20230301T103739_20230301T104101_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_20230301T144246_20230301T144349_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_20230301T144655_20230301T144758_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230301T185749_20230301T185754_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_20230301T013637_20230301T014227_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_20230301T025012_20230301T025453_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_20230301T080847_20230301T081000_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230301T085608_20230301T085749_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_20230301T144758_20230301T145346_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_20230301T150945_20230301T151426_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_20230301T171816_20230301T171822_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20230301T000304_20230301T000508_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_20230301T000717_20230301T000759_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_20230301T000815_20230301T000913_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_20230301T001700_20230301T001949_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_20230301T004028_20230301T004142_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_20230301T022550_20230301T023216_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_20230301T043840_20230301T044022_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 JOPN 2_20230301T045740_20230301T045830_CO01 CS_OFFL_SIR JOPN 2_20230301T045740_20230301T050205_C001 CS_OFFL_SIR JOPN 2_20230301T050308_20230301T050205_C001 CS_OFFL_SIR JOPN 2_20230301T050308_20230301T050205_C001 CS_OFFL_SIR JOPN 2_20230301T050308_20230301T050205_C001 CS_OFFL_SIR JOPN 2_20230301T0503005_20230301T050205_C001 CS_OFFL_SIR JOPN 2_20230301T0503005_20230301T050401_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T050401_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T05005_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T05005_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T05005_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T050505_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T050505_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T050505_C001 CS_OFFL_SIR JOPN 2_20230301T050505_20230301T1050505_C001 CS_OFFL_SIR JOPN 2_20230301T112054_20230301T112055_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112057_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T12058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T12058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T112058_C001 CS_OFFL_SIR JOPN 2_20230301T112058_20230301T12058_C001 C
and Backscatter Quality PLRM. COCG Allmeter Range. SINA. PLRM. COCG Allmeter Range and Backscatter Quality Flags have been set for one more records. CS OFFL SIR JOPN 2 202303017051809. 202303017052319 C001 CS OFFL SIR JOPN 2 202303017053852 202303017054049 C001 CS OFFL SIR JOPN 2 202303017050555 202303017054049 C001 CS OFFL SIR JOPN 2 202303017050754 20230301705409 C001 CS OFFL SIR JOPN 2 202303017050754 202303017050925 C001 CS OFFL SIR JOPN 2 202303017050754 202303017050925 C001 CS OFFL SIR JOPN 2 202303017050754 202303017100925 C001 CS OFFL SIR JOPN 2 2023030171057572 202303017110954 C001 CS OFFL SIR JOPN 2 202303017112549 202303017110954 C001 CS OFFL SIR JOPN 2 202303017112549 202303017110954 C001 CS OFFL SIR JOPN 2 202303017113577 202303017112595 C001 CS OFFL SIR JOPN 2 202303017113577 202303017112595 C001 CS OFFL SIR JOPN 2 202303017113577 202303017112595 C001 CS OFFL SIR JOPN 2 202303017135307 20230301712595 C001 CS OFFL SIR JOPN 2 202303017135307 20230301712595 C001 CS OFFL SIR JOPN 2 202303017145533 20230301712595 C001 CS OFFL SIR JOPN 2 202303017145533 20230301712595 C001 CS OFFL SIR JOPN 2 202303017145533 20230301715539 C001 CS OFFL SIR JOPN 2 20230301714455 20230301714475 C001 CS OFFL SIR JOPN 2 20230301714455 20230301714475 C001 CS OFFL SIR JOPN 2 20230301714455 20230301714475 C001 CS OFFL SIR JOPN 2 20230301715414 20230301715539 C001 CS OFFL SIR JOPN 2 20230301715414 20230301715539 C001 CS OFFL SIR JOPN 2 202303017154174 20230301715539 C001 CS OFFL SIR JOPN 2 202303017154174 20230301715539 C001 CS OFFL SIR JOPN 2 202303017154174 20230301715539 C001 CS OFFL SIR JOPN 2 20230301715474 20230301715539 C001 CS OFFL SIR JOPN 2 202303017154714
OCCG Backscatter Quality CS_OFFL_SIR_JOPN_2_202303017053852_202303017054046_C001 CS_OFFL_SIR_JOPN_2_202303017063952_202303017054046_C001 CS_OFFL_SIR_JOPN_2_202303017063505_202303017064011_C001 Alterneter Range and Backscatter Quality PLRM. OCCG Alterneter Range and Backscatter Quality Flags have been set for one or norm or records CS_OFFL_SIR_JOPN_2_202303017060754_202303017060925_C001 CS_OFFL_SIR_JOPN_2_202303017060754_202303017100054_C001 CS_OFFL_SIR_JOPN_2_2023030171060754_202303017100054_C001 CS_OFFL_SIR_JOPN_2_20230301710005728_202303017100054_C001 CS_OFFL_SIR_JOPN_2_202303017112346_202303017112497_C001 CS_OFFL_SIR_JOPN_2_202303017112466_202303017112497_C001 CS_OFFL_SIR_JOPN_2_202303017112627_202303017112497_C001 CS_OFFL_SIR_JOPN_2_202303017112627_202303017112595_C001 CS_OFFL_SIR_JOPN_2_202303017112638_202303017112595_C001 CS_OFFL_SIR_JOPN_2_202303017112638_202303017112595_C001 CS_OFFL_SIR_JOPN_2_202303017112638_20230301712500_C001 CS_OFFL_SIR_JOPN_2_2023030171124654_20230301712500_C001 CS_OFFL_SIR_JOPN_2_2023030171124654_20230301713500_C001 CS_OFFL_SIR_JOPN_2_2023030171124654_20230301713500_C001 CS_OFFL_SIR_JOPN_2_2023030171124654_20230301713500_C001 CS_OFFL_SIR_JOPN_2_2023030171144655_20230301713500_C001 CS_OFFL_SIR_JOPN_2_2023030171144655_20230301713500_C001 CS_OFFL_SIR_JOPN_2_2023030171144655_20230301713500_C001 CS_OFFL_SIR_JOPN_2_2023030171144655_20230301713500_C001 CS_OFFL_SIR_JOPN_2_2023030171144655_20230301715300_C001 CS_OFFL_SIR_JOPN_2_2023030171144655_20230301715300_C001 CS_OFFL_SIR_JOPN_2_2023030171144655_20230301715300_C001 CCG_Alterneter Range Quality PLRM. COCG Backscatter Quality PLRM. COCG Backscatt
OCOG Backscatter Quality CS_OFFL_SIR_IOPN_2_2023031T063505_2023031T064011_C001 CS_OFFL_SIR_IOPN_2_2023031T090754_20230301T090825_C001 CS_OFFL_SIR_IOPN_2_20230301T090754_20230301T090825_C001 CS_OFFL_SIR_IOPN_2_20230301T090754_20230301T100084_C001 CS_OFFL_SIR_IOPN_2_20230301T1097728_20230301T100084_C001 CS_OFFL_SIR_IOPN_2_20230301T112346_20230301T1100084_C001 CS_OFFL_SIR_IOPN_2_20230301T112346_20230301T112437_C001 CS_OFFL_SIR_IOPN_2_20230301T113467_20230301T112487_C001 CS_OFFL_SIR_IOPN_2_20230301T113467_20230301T112488_C001 CS_OFFL_SIR_IOPN_2_20230301T112488_20230301T112588_C001 CS_OFFL_SIR_IOPN_2_20230301T1124884_20230301T112588_C001 CS_OFFL_SIR_IOPN_2_20230301T1134855_20230301T112588_C001 CS_OFFL_SIR_IOPN_2_20230301T1134855_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135305_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135305_20230301T135309_C001 CS_OFFL_SIR_IOPN_2_20230301T135305_20230301T153509_C001 CS_OFFL_SIR_IOPN_2_20230301T135305_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T155309_C001 CS_OFFL_SIR_IOPN_2_20230301T153305_20230301T155309_C001 CS_OFFL_SIR_IOPN_2_20230301T153305_20230301T153509_C001 CS_OFFL_SIR_IOPN_2_20230301T153305_20230301T154788_C001 CS_OFFL_SIR_IOPN_2_20230301T1544655_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T1541478_C001 CS_OFFL_SIR_IOPN_2_20230301T1544656_00301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T1544656_00301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T1544656_00301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T1544656_00301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T1544656_00301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T1544656_00301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T15414758_00301T154318
CS_OFFL_SIR_IOPN_2_20230301T063505_20230301T064011_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags have been set for one or noire records set for one or noire records. CS_OFFL_SIR_IOPN_2_20230301T090754_20230301T100054_C001 CS_OFFL_SIR_IOPN_2_20230301T090754_20230301T100054_C001 CS_OFFL_SIR_IOPN_2_20230301T1095728_20230301T100054_C001 CS_OFFL_SIR_IOPN_2_20230301T112346_20230301T112437_C001 CS_OFFL_SIR_IOPN_2_20230301T112346_20230301T112437_C001 CS_OFFL_SIR_IOPN_2_20230301T112346_20230301T112437_C001 CS_OFFL_SIR_IOPN_2_20230301T112657_20230301T113954_C001 CS_OFFL_SIR_IOPN_2_20230301T112658_2001 CS_OFFL_SIR_IOPN_2_20230301T112658_2001 CS_OFFL_SIR_IOPN_2_20230301T112658_2001 CS_OFFL_SIR_IOPN_2_20230301T112658_200301T112559_C001 CS_OFFL_SIR_IOPN_2_20230301T112654_20230301T112559_C001 CS_OFFL_SIR_IOPN_2_20230301T113507_20230301T113559_C001 CS_OFFL_SIR_IOPN_2_20230301T114655_20230301T1144758_C001 CS_OFFL_SIR_IOPN_2_20230301T1144655_20230301T1144758_C001 CS_OFFL_SIR_IOPN_2_20230301T1153337_20230301T1153339_C001 CS_OFFL_SIR_IOPN_2_20230301T1153352_20230301T1144758_C001 CS_OFFL_SIR_IOPN_2_20230301T1153352_20230301T1153393_C001 CS_OFFL_SIR_IOPN_2_20230301T1153352_20230301T1144758_C001 CS_OFFL_SIR_IOPN_2_20230301T1153352_20230301T1153393_C001 CS_OFFL_SIR_IOPN_2_20230301T153315_20230301T1153393_C001 CS_OFFL_SIR_IOPN_2_20230301T1153352_20230301T1153393_C001 CS_OFFL_SIR_IOPN_2_20230301T1153352_20230301T1153393_C001 CS_OFFL_SIR_IOPN_2_20230301T1153352_20230301T1153393_C001 CS_OFFL_SIR_IOPN_2_20230301T153393_20230301T153393_C001 CCGG Altimeter Range Quality PLRM. CCGG Backscatter Quality PLRM. CCGG Backscatter Quality PLRM. CCGG Backscatter Quality PLRM. CCGG Backscatter Quality PLRM. CCGG Range and Backscatter Quality Flags have been set for one more records The CCGG Range and Backscatter Quality Flags have been set for one more records The CCGG Range and Backscatter Quality Flags have been set for one more records The CCGG Range and Backscatter Quality Flags
OCG Altimeter Range Quality PLRM. CS_OFFL_SIR_IOPN_2_20230301T1095728_20230301T112437_C001 OCG Altimeter Range Quality PLRM. OCG Backscatter Quality PLRM.
OCOG Backscatter Quality more records CS_OFFL_SIR_IOPN_2_20230301T112346_20230301T112437_C001 CS_OFFL_SIR_IOPN_2_20230301T112346_20230301T112437_C001 CS_OFFL_SIR_IOPN_2_20230301T113627_20230301T113954_C001 CS_OFFL_SIR_IOPN_2_20230301T113627_20230301T113954_C001 CS_OFFL_SIR_IOPN_2_20230301T113627_20230301T113954_C001 CS_OFFL_SIR_IOPN_2_20230301T121638_20230301T121958_C001 CS_OFFL_SIR_IOPN_2_20230301T124654_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T124654_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153339_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153339_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153339_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153339_C001 CS_OFFL_SIR_IOPN_2_20230301T153335_20230301T153339_C001 CS_OFFL_SIR_IOPN_2_20230301T153335_20230301T153339_C001 CS_OFFL_SIR_IOPN_2_20230301T153335_20230301T153339_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_
And Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20230301T113627_20230301T113954_C001 CS_OFFL_SIR_IOPN_2_20230301T121638_20230301T121958_C001 CS_OFFL_SIR_IOPN_2_20230301T121638_20230301T121958_C001 CS_OFFL_SIR_IOPN_2_20230301T124654_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CCG_Altimeter Range_Quality PLRM, OCOG_Altimeter Range_SSHA, SWH and Backscatter Quality Flags have been set for one more records CCG_Altimeter Range_SSHA, SWH and Backscatter Quality Flags have been set for one more records CCG_Altimeter Range_SSHA, SWH and Backscatter Quality Flags have been set for one more records CCG_Altimeter Range_Altimeter Range_SSHA, SWH and Backscatter Quality Flags have been set for one more records CCG_Altimeter Range_Altimeter Range_Al
CS_OFFL_SIR_IOPN_2_20230301T121638_20230301T121958_C001 CS_OFFL_SIR_IOPN_2_20230301T121638_20230301T121958_C001 CS_OFFL_SIR_IOPN_2_20230301T124654_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T124654_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_
CS_OFFL_SIR_IOPN_2_20230301T124654_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T124654_20230301T125020_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CCOG Altimeter Range Quality PLRM, CCOG Altimeter Range and Backscatter Quality Flags have been set for one more records CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CCOG Altimeter Range Quality PLRM, CCOG Altimeter Range and Backscatter Quality Flags have been set for one more records CCOG Altimeter Range Quality PLRM, CCOG Altimeter Range and Backscatter Quality Flags have been set for one more records CCOG Altimeter Range Quality PLRM, CCOG Altimeter Range and Backscatter Quality Flags have been set for one more records CCOG Altimeter Range Quality PLRM, CCOG Bange and Backscatter Quality Flags have been set for one more records
OCOG Backscatter Quality CS_OFFL_SIR_IOPN_2_20230301T124054_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T135307_20230301T135509_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one more records CS_OFFL_SIR_IOPN_2_20230301T144655_20230301T144758_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T1626
CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T153935_20230301T153939_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T153939_C001 OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T154114_20230301T154318_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20230301T162457_20230301T162650_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records
OCOG Backscatter Quality PLRM The OCOG Bange and Backscatter Quality Flags have been set for one
OCOG Altimatar Range Quality PLRM The OCOG Pange and Respectator Quality Flace have been set for and
CS_OFFL_SIR_IOPN_2_20230301T171850_20230301T171854_C001 OCOG Backscatter Quality Interfer Hange Quality PLRM, OCOG Backscatter Quality OCOG Backscatter Quality Interfer Hange Quality PLRM, OCOG Hange and Backscatter Quality Plays have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T171956_20230301T172406_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or or records The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T172813_20230301T173123_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T174005_20230301T174351_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T180123_20230301T180544_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 Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230301T190047_20230301T190254_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T193759_20230301T194408_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T195417_20230301T195540_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_IOPN_2_20230301T202958_20230301T203131_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 Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230301T211701_20230301T212111_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

Additional Purple Color Color Additional Purple Color		Ocean Altimeter Range, SSHA, SWH	The Ocean Altimates Peace COUA CMU and Peakership Ouglits Flore
The Cook American Plays Code (1994) and the code of the the co	CS_OFFL_SIR_IOPN_2_20230301T221008_20230301T221133_C001	Altimeter Range and Backscatter Quality PLRM	
Col. CHIL. SHI DPN 2 DE20081120042 2020001120041, 2000001120045, D011	CS_OFFL_SIR_IOPN_2_20230301T225820_20230301T230026_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col. DPRL SRI LIDPR 2 202000017000012 202000017000012 COLD Allerse Revyo Clustry P.RM. Tol. COOR Response and Biochecoter Clustry Flags Nove been set for one or receive incoming. Col. DPRL SRI LIDPR 2 202000017000012 20200001700101 COLD	CS_OFFL_SIR_IOPN_2_20230301T231103_20230301T231144_C001		
CS_CFFL_SRI_IOPR_2_282222231T00008_20000011939357_C001 CS_CFFL_SRI_IOPR_2_282222231T00008_20000011939357_C001 CS_CFFL_SRI_IOPR_2_282222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_282222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_282222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_282222331T00008_200001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28222331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28223231T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001193937_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001133939_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001133939_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001133939_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001133939_C001 CS_CFFL_SRI_IOPR_2_28223331T00008_2000001133939_C001 CS_CFFL_SRI_IOPR_2_28223331T000009_2000001133939_C001 CS_CFFL_SRI_IOPR_2_28233331T000009_20000011343939_C001 CS_CFFL_SRI_IOPR_2_28233331T000009_20000011343939_C001 CS_CFFL_SRI_IOPR_2_2823333	CS_OFFL_SIR_IOPN_2_20230301T232643_20230301T232828_C001		
CS_OFFL_SR_OFFR_2_records Trouble_2 Color	CS_OFFL_SIR_IOPN_2_20230301T233147_20230301T233215_C001		
CS_CFFL_SIR_JOPP_2_20230011703691_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703691_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703691_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703691_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703691_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703691_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703692_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703692_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703692_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703692_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703692_20230011703692_001 CS_CFFL_SIR_JOPP_2_20230011703692_20230011703692_001 CS_CFFL_SIR_JOPP_2_202300011703692_20230011703692_001 CS_CFFL_SIR_JOPP_2_2023	CS_OFFL_SIR_IOPR_2_20230301T000508_20230301T000657_C001		
S. OFFL. SIRI JOPR 2. 2020001T00301 _2020001T010107 C001 CS. OFFL SIRI JOPR 2. 2020001T01247 _2020001T01270 C001 CS. OFFL SIRI JOPR 2. 2020001T01249 _2020001T01270 C001 CS. OFFL SIRI JOPR 2. 2020001T01249 _2020001T01270 C001 CS. OFFL SIRI JOPR 2. 2020001T01349 _2020001T01300 C001 CS. OFFL SIRI JOPR 2. 2020001T01349 _2020001T00140 C001 CS. OFFL SIRI JOPR 2. 2020001T00340 _2020001T00140 C001 CS. OFFL SIRI JOPR 2. 2020001T00400 _2020001T00440	CS_OFFL_SIR_IOPR_2_20230301T000913_20230301T001107_C001		
American Range and Stadescated Caulity P.L.M. Corea Alternater Range and Stadescated Caulity Range and Stadescated Caulity Range Range and Stadescated Caulity Range Range and Stadescater Caulity Range and Stadescater Caulity Range Ran	CS_OFFL_SIR_IOPR_2_20230301T003931_20230301T004028_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS_OFFL_SIR_IOPR_2_20230301T0192942_20230301T03927_0023031T03927_00230301T03927_0	CS_OFFL_SIR_IOPR_2_20230301T012547_20230301T012710_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS. OFFL SIR JOPR 2 20230301T030426 20230301T030426 C001 CS. OFFL SIR JOPR 2 20230301T030426 20230301T030426 C001 CS. OFFL SIR JOPR 2 20230301T030447 20230301T030440 C001 CS. OFFL SIR JOPR 2 20230301T030447 20230301T030440 C001 CS. OFFL SIR JOPR 2 20230301T030440 20230301T030506 C001 CS. OFFL SIR JOPR 2 20230301T030440 20230301T030508 C001 CS. OFFL SIR JOPR 2 20230301T030601 20230301T030508 C001 CS. OFFL SIR JOPR 2 20230301T030601 20230301T030508 C001 CS. OFFL SIR JOPR 2 20230301T030604 20230301T031527 C001 Amend Backscatter Quality PLRM. COCO Backscatter	CS_OFFL_SIR_IOPR_2_20230301T012943_20230301T013637_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCCE Backscatter Quality PLBM,	CS_OFFL_SIR_IOPR_2_20230301T013637_20230301T014227_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20230301T030447_20230301T030549_C001 CS_OFFL_SIR_IOPR_2_20230301T030543_20230301T030559_C001 CS_OFFL_SIR_IOPR_2_20230301T030543_20230301T030559_C001 CS_OFFL_SIR_IOPR_2_20230301T030543_20230301T030559_C001 CS_OFFL_SIR_IOPR_2_20230301T030543_20230301T030559_C001 CS_OFFL_SIR_IOPR_2_20230301T030541_20230301T030559_C001 CS_OFFL_SIR_IOPR_2_20230301T030541_20230301T030559_C001 CS_OFFL_SIR_IOPR_2_20230301T030541_20230301T031527_C001 CS_OFFL_SIR_IOPR_2_20230301T030541_20230301T031527_C001 CS_OFFL_SIR_IOPR_2_20230301T030542_20230301T034107_C001 CS_OFFL_SIR_IOPR_2_20230301T042842_20230301T04407_C001 CS_OFFL_SIR_IOPR_2_20230301T042842_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T062018_20230301T062018_C001 CS_OFFL_SIR_IOPR_2_20230301T062018_20230301T062018_C	CS_OFFL_SIR_IOPR_2_20230301T030426_20230301T030428_C001		
OCG Altimeter Range Clustily PLRM. OCG Backscatter Quality PLRM. O	CS_OFFL_SIR_IOPR_2_20230301T030447_20230301T030541_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20230301T030921_20230301T031527_C001 CS_OFFL_SIR_IOPR_2_20230301T031527_20230301T031635_C001 CS_OFFL_SIR_IOPR_2_20230301T031527_20230301T031635_C001 CS_OFFL_SIR_IOPR_2_20230301T033854_20230301T034107_C001 CS_OFFL_SIR_IOPR_2_20230301T033854_20230301T034107_C001 CS_OFFL_SIR_IOPR_2_20230301T034854_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T042908_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T042908_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T04308_C001 CS_OFFL_SIR_IOPR_2_20	CS_OFFL_SIR_IOPR_2_20230301T030543_20230301T030559_C001		
and Backscatter Quality PLRM. COGG Altimeter Range and Backscatter Quality PLRM. COGG Altimeter Range and Backscatter Quality PLRM. CS_OFFL_SIR_IOPR_2_20230301T031527_20230301T031635_C001 CS_OFFL_SIR_IOPR_2_20230301T033554_20230301T031635_C001 CS_OFFL_SIR_IOPR_2_20230301T033554_20230301T034107_C001 CS_OFFL_SIR_IOPR_2_20230301T033554_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T042918_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T06401	CS_OFFL_SIR_IOPR_2_20230301T030601_20230301T030608_C001		
CS_OFFL_SIR_IOPR_2_20230301T031527_20230301T031635_C001 All meter Range and Backscatter Quality PLRM. CG_OFFL_SIR_IOPR_2_20230301T033854_20230301T034107_C001 CS_OFFL_SIR_IOPR_2_20230301T042842_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T042842_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045082_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045082_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064088_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_O	CS_OFFL_SIR_IOPR_2_20230301T030921_20230301T031527_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_20230301T042842_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T042842_20230301T042918_C001 CS_OFFL_SIR_IOPR_2_20230301T042842_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_	CS_OFFL_SIR_IOPR_2_20230301T031527_20230301T031635_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062903_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_202303	CS_OFFL_SIR_IOPR_2_20230301T033854_20230301T034107_C001		
CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045328_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T0	CS_OFFL_SIR_IOPR_2_20230301T042842_20230301T042918_C001		
CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045328_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T08302_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T08302_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T08302_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T08302_20230301T08302_20230301T083354_C001 CCCGA Altimeter Range Altimeter Range Quality PLRM, CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCCGA Altimeter Range Altimeter Range Quality PLRM, CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCCGA Altimeter Range Quality PLRM, CCCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCCGA Altimeter Range Quality PLRM, CCCCGA Altimeter Range Quality PLRM, CCCCGA Altimeter Range Quality PLRM, CCCCCA Altimeter Range Altimeter Range Quality PLRM, CCCCCA Altimeter Range Altimeter Range Quality PLRM, CCCCCA Altimeter Range Altimeter Ran	CS_OFFL_SIR_IOPR_2_20230301T045018_20230301T045059_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 CS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 CCS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 CCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 CCOG Altimeter Range Quality PLRM, CCS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 CCCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPR_2_20230301T045122_20230301T045328_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001 CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter	CS_OFFL_SIR_IOPR_2_20230301T062803_20230301T062918_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 OCOG Altimeter Range Quality PLRM, The OCGA Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_IOPR_2_20230301T062918_20230301T063505_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and the OCGG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 CS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 CS_OFFL_SIR_IOPR_2_20230301T083820_20230301T083854_C001 The OCGG Altimeter Range Quality PLRM, The OCGG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_IOPR_2_20230301T064019_20230301T064308_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFI SIB IOPB 2 20230301 1093820 20230301 1093854 C001	CS_OFFL_SIR_IOPR_2_20230301T081020_20230301T081525_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPR_2_20230301T093820_20230301T093854_C001		, ,

CC OFFI CID IODD 0 00000001T00444 00000001T004F4C C004	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20230301T094414_20230301T094546_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230301T094725_20230301T095728_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_20230301T111447_20230301T111829_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_20230301T112104_20230301T112331_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_20230301T112759_20230301T113627_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_20230301T114904_20230301T115149_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_20230301T125448_20230301T125558_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_20230301T125639_20230301T130109_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_20230301T130109_20230301T130612_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_20230301T130856_20230301T131640_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_20230301T131807_20230301T131901_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_20230301T144758_20230301T145346_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_20230301T145349_20230301T145509_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_20230301T145745_20230301T150229_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_20230301T161622_20230301T161822_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_20230301T161858_20230301T162142_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_20230301T162256_20230301T162457_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_20230301T162713_20230301T163355_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_20230301T171816_20230301T171822_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_20230301T175811_20230301T180046_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_20230301T180544_20230301T181105_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_20230301T194408_20230301T195139_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_20230301T2121111_20230301T212848_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_20230301T230026_20230301T230711_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_20230301T231409_20230301T231548_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_20230301T233408_20230301T233512_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 & 1 Hz PLRM)

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

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

Number of products with errors:

202

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

64

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

146

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:

0

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:

Λ

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220230228T235619_20230301T004556_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOP_220230301T004556_20230301T013534_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T013534_20230301T022511_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T022511_20230301T031449_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T031449_20230301T040426_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20230301T040426_20230301T045403_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T045403_20230301T054340_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T054340_20230301T063318_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T063318_20230301T072255_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20230301T072255_20230301T081233_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_2_20230301T081233_20230301T090210_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20230301T090210_20230301T095147_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T095147_20230301T104125_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T104125_20230301T113102_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T113102_20230301T122039_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T122039_20230301T131017_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T135954_20230301T144931_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T144931_20230301T153909_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T153909_20230301T162846_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20230301T162846_20230301T171823_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T171823_20230301T180801_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20230301T180801_20230301T185738_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T185738_20230301T194716_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T194716_20230301T203653_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T203653_20230301T212630_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T212630_20230301T221608_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T221608_20230301T230545_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T230545_20230301T235522_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230301T235522_20230302T004500_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

0

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

Number of products with errors: 28

P2P Quality Flags (20 Hz 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. The number of P2P products affected is given below.

Number of products with errors: 28

P2P Quality Flags (1 Hz & 1 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below.

Number of products with errors:

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

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

Number of products with errors:

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	202	202	4	198	0
SIR_IOPR1B	137	106	3	103	0
SIR_IOPN1B	106	137	0	137	0
SIR_IOPM_2	202	202	147	55	0
SIR_IOPR_2	137	106	41	65	0
SIR_IOPN_2	106	137	61	73	3
SIR_IOP_P2P	28	28	0	27	1

7.1 QCC Errors

Number of QCC reports with errors:

10

Total number of occurrences of each error

					l otal number	of occurrences	s of each error				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	3	3	3	3							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR IOP 2	1	1	1	1						,	

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

7.2 QCC Warnings

Number of QCC reports with warnings

2155

Total number of occurrences of each warning

	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
Ī	SIR_IOPM1B	198	0	0	0	0	0	0
	SIR_IOPM_2	0	0	40	42	1	45	0
	SIR_IOPN1B	101	0	0	0	0	0	0
	SIR_IOPN_2	0	0	12	36	4	29	31
	SIR_IOPR1B	135	0	0	0	0	0	0
	SIR IOPR 2	0	3	21	35	0	26	21

	Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
Ī	SIR_IOPM1B	0	0	0	0	0	0	0
	SIR_IOPM_2	35	0	30	0	0	0	0
	SIR_IOPN1B	0	0	0	0	0	0	0
	SIR_IOPN_2	19	0	0	0	20	0	32
	SIR_IOPR1B	0	0	0	0	0	0	0
	SIR IOPR 2	10	4	0	39	0	48	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	26	0	0	7	31	0	5
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	27	13	49	56	30
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	36	0	2	56	27	11

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	40	0	2	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	49	2
SIR_IOPN_2	34	33	10	0	0	0	0
SIR_IOPR1B	0	0	0	0	0	137	16
SIR_IOPR_2	28	39	1	1	3	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	15		28	5	28	14	27

Ì	Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
	SIR IOP 2	4	13		21	15	28	17

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_IOP_2_	19	27	15	11	28		
•		*		•	•		•
Product Type	-	-	-	-	-	-	-

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF		The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			

RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
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: