

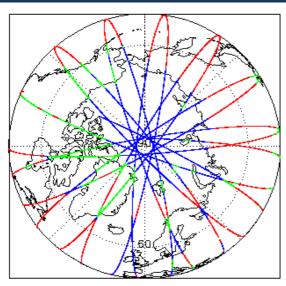
1. Overview

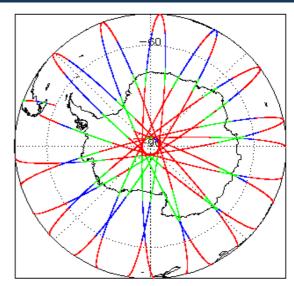
Report Production:	16-Nov-2022		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data		

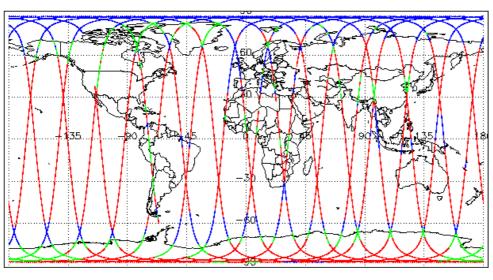
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

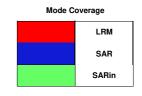
Mission / Inst	Mission / Instrument News		
12-Nov-2022	None		
13-Nov-2022	None		
14-Nov-2022	Nothing planned		

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:

0

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221113T015205_20221113T015550_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Duradical	Took Failed	Deservindien
Product	Test Failed	Description The transfer of the second secon
CS_OFFL_SIR_IOPM1B_20221113T091315_20221113T092830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221113T141219_20221113T143903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221113T195857_20221113T201053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221113T210608_20221113T212312_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221113T223655_20221113T223951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T081751_20221113T082233_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T095656_20221113T095805_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T103950_20221113T104215_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T113614_20221113T114206_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T131626_20221113T132035_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T145824_20221113T150242_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T204233_20221113T204426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T212729_20221113T212825_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221113T230154_20221113T230706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T023337_20221113T023658_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T035149_20221113T035513_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T063101_20221113T063749_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T081224_20221113T081642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T144909_20221113T145824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T162220_20221113T162534_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T175626_20221113T175656_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221113T230706_20221113T231421_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:

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221113T005633_20221113T012357_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_IOPM_2_20221113T065749_20221113T071527_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_IOPM_2_20221113T132845_20221113T135535_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_20221113T004308_20221113T004540_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_20221113T005301_20221113T005445_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_20221113T023201_20221113T023337_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_20221113T040858_20221113T041217_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_20221113T054126_20221113T054246_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_20221113T054755_20221113T055106_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_20221113T072219_20221113T072459_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_20221113T072659_20221113T073230_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_20221113T081751_20221113T082233_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_20221113T090133_20221113T090409_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_20221113T095656_20221113T095805_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_20221113T113614_20221113T114206_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_20221113T121902_20221113T122050_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_20221113T122902_20221113T123126_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_20221113T131626_20221113T132035_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_20221113T145824_20221113T150242_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20221113T153838_20221113T154211_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_20221113T172628_20221113T172752_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_20221113T180839_20221113T181000_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_20221113T194801_20221113T194910_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_20221113T204233_20221113T204426_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_20221113T212729_20221113T212825_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_20221113T230154_20221113T230706_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_20221113T235140_20221113T235432_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_20221112T235713_20221113T000230_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_20221113T013516_20221113T014532_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_20221113T031310_20221113T032044_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_20221113T033000_20221113T033157_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_20221113T045052_20221113T045849_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_20221113T045849_20221113T050012_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_20221113T063101_20221113T063749_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_20221113T063749_20221113T064044_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_20221113T081224_20221113T081642_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_20221113T081642_20221113T081751_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_20221113T095021_20221113T095237_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_20221113T095237_20221113T095656_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_20221113T112959_20221113T113614_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_20221113T131136_20221113T131626_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_20221113T144909_20221113T145824_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_20221113T162850_20221113T163720_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_20221113T181000_20221113T181749_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_20221113T194910_20221113T195625_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_20221113T210354_20221113T210607_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20221113T212825_20221113T213524_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_20221113T230706_20221113T231421_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

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221113T015205_20221113T015550_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
	•	

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.

86

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221113T001808_20221113T003925_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_20221113T003944_20221113T004035_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_20221113T004540_20221113T004911_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_20221113T004918_20221113T004927_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_20221113T004933_20221113T005301_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_20221113T005633_20221113T012357_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_20221113T015610_20221113T021957_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_20221113T022324_20221113T022825_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_20221113T023659_20221113T030949_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_20221113T032227_20221113T032435_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_20221113T033517_20221113T034218_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_20221113T035513_20221113T035830_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_20221113T040324_20221113T040858_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_20221113T041623_20221113T044854_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_20221113T050154_20221113T050308_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_20221113T052130_20221113T053704_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_20221113T054246_20221113T054755_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_20221113T055455_20221113T063000_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_20221113T065233_20221113T065653_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_20221113T065749_20221113T071527_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_20221113T073432_20221113T074929_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_20221113T075601_20221113T080852_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_20221113T081035_20221113T081041_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	T	I
CS_OFFL_SIR_IOPM_2_20221113T082256_20221113T084052_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_20221113T084215_20221113T085611_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_20221113T090409_20221113T090610_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_20221113T090717_20221113T091112_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_20221113T091315_20221113T092830_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_20221113T093032_20221113T093955_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_20221113T095805_20221113T095914_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_20221113T100233_20221113T101856_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_20221113T103500_20221113T103733_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_20221113T104215_20221113T105015_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_20221113T105313_20221113T110738_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_20221113T112136_20221113T112154_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_20221113T112321_20221113T112401_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_20221113T114328_20221113T121713_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_20221113T122050_20221113T122259_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_20221113T122325_20221113T122902_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_20221113T123305_20221113T125650_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_20221113T132845_20221113T135535_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_20221113T140300_20221113T140737_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_20221113T141219_20221113T143903_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_20221113T144651_20221113T144909_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_20221113T150242_20221113T153358_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_20221113T154211_20221113T154744_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_20221113T155134_20221113T155531_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_20221113T162640_20221113T162849_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_20221113T164127_20221113T171419_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

Col. OFF. 6R IOPM 2 302113114600 28211311461 COD Afferting page 10 biotection Code) Col. OFF. 6R IOPM 2 302113114600 282111116002 COD Afferting page 10 biotection Code) Col. OFF. 6R IOPM 2 302113114600 282111116002 COD Afferting page 10 biotection Code) Col. OFF. 6R IOPM 2 302113114600 282111116002 COD Afferting page 10 biotection Code) Col. OFF. 6R IOPM 2 3021113116014 28221113116002 COD Afferting page 10 biotection Code) Col. OFF. 6R IOPM 2 302113116014 2822113116002 COD Afferting page 10 biotection Code) Col. OFF. 6R IOPM 2 302113116014 2822113116002 COD Col. OFF. 6R IOPM 2 302113116014 2822113116014 COD Col. OFF. 6R IOPM 2 302113116014 2822113116014 COD Col. OFF. 6R IOPM 2 302113116014 2822113116014 COD Col. OFF. 6R IOPM 2 302113116016 282113116014 COD Col. OFF. 6R IOPM 2 302113116016 2822113116010 COD Col. OFF. 6R IOPM 2 302113116016 2822113116000 COD Col. OFF. 6R IOPM 2 302113116016 2822113116000 COD Col. OFF. 6R IOPM 2 302113116000 2822113116000 COD Col. OFF. 6R IOPM 2 3022113116000 282211312000 COD Col. OFF. 6R IOPM 2 3022113116000 282211312000 COD Col. OFF. 6R IOPM 2 3022113110000 COD Col. OFF.	CS_OFFL_SIR_IOPM_2_20221113T172115_20221113T172628_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 SR ICPM 2 5820113T18068 202113T18068 2020 See Electated Cubits Code See Electated Cubits (Code See Electated Cubits (Code See Electated Cubits (Code See Electated Cubits) (Code See Electated Cub	CS_OFFL_SIR_IOPM_2_20221113T173200_20221113T174811_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DC CPFL_SR_UPM_2_2022113710919.2.0202113710000. CD CPFL_SR_UPM_2_2022113710919.2.0202113710000. CD CPFL_SR_UPM_2_20221137100700 acceptance to the company of the company	CS_OFFL_SIR_IOPM_2_20221113T180609_20221113T180629_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the DOCO Alternate Flatings and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceton Country Plags have been self selected from the Alternate Plangs and Resourceto	CS_OFFL_SIR_IOPM_2_20221113T181815_20221113T184032_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Local Attention Pages and Subscitute Cuality Flags have been set for sea or more recently. Co. OFFL. SRI JOPM. 2. 20221113719169 2022113719092 COOI Co. OFFL. SRI JOPM. 2. 2022113719169 2022113719092 COOI Co. OFFL. SRI JOPM. 2. 2022113719959 CO22113719092 COOI Co. OFFL. SRI JOPM. 2. 2022113719959 CO22113720025 COOI Co. OFFL. SRI JOPM. 2. 2022113719959 CO22113720025 COOI Co. OFFL. SRI JOPM. 2. 2022113720025 COOI Co. OFFL. SRI JOPM. 2	CS_OFFL_SIR_IOPM_2_20221113T184142_20221113T185303_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Source S	CS_OFFL_SIR_IOPM_2_20221113T185739_20221113T190115_C001		
08_0FFL_SIR_IOPM_2_0221113T19600_0221113T19604_0201113T19604_0201113T19604_0021113T196	CS_OFFL_SIR_IOPM_2_20221113T190133_20221113T190530_C001		
and Backscatter Cuality Accept Agreement Range and Backscatter Cuality Flags have been set for core or more records of the COCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records of the CoCOA Altimeter Range and Backscatter Cuality Flags have been set for core or more records. CS_OFFL_SIR_IOPM_2_202211137219368_0001 CS_OFFL_SIR_IOPM_2_202211137219381_202211137219355_0001 CS_OFFL_SIR_IOPM_2_202211137219382_002211137219355_0001 CS_OFFL_SIR_IOPM_2_202211137219382_002211137219355_0001 CS_OFFL_SIR_IOPM_2_202211137219382_0022111372219355_0001 CS_OFFL_SIR_IOPM_2_202211137221935_0001 CS_OFFL_SIR_IOPM_2_202211137221935_0001 CS_OFFL_SIR_IOPM_2_202211137221935_0001 CS_OFFL_SIR_IOPM_2_202211137221935_0001 CS_OFFL_SIR_IOPM_2_20221	CS_OFFL_SIR_IOPM_2_20221113T191029_20221113T193632_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscaterior Cuality CS_OFFL_SIR_IOPM_2_20221113T199897_20221113T201033_0001 CS_OFFL_SIR_IOPM_2_20221113T201697_20221113T201039_0001 CS_OFFL_SIR_IOPM_2_20221113T201697_20221113T201039_0001 CS_OFFL_SIR_IOPM_2_20221113T201697_20221113T201039_0001 CS_OFFL_SIR_IOPM_2_20221113T201697_20221113T201039_0001 CS_OFFL_SIR_IOPM_2_20221113T201697_20221113T201039_0001 CS_OFFL_SIR_IOPM_2_20221113T201697_20221113T201698_0001 CS_OFFL_SIR_IOPM_2_20221113T201698_20001 CS_OFFL_SIR_IOPM_2_20221113T201698_20001 CS_OFFL_SIR_IOPM_2_20221113T201698_20001 CS_OFFL_SIR_IOPM_2_20221113T201698_20001 CS_OFFL_SIR_IOPM_2_20221113T218089_20001 CS_OFFL_SIR_IOPM_2_20221113T21809_20001 CS_OFFL_SIR_IOPM_2_20221113T21821809_20001 CS_OFFL_SIR_IOPM_2_20221113T21821809_20001 CS_OFFL_SIR_IOPM_2_20221113T21821809_20001 CS_OFFL_SIR_IOPM_2_20221113T21821809_20001 CS_OFFL_SIR_IOPM_2_20221113T21821809_20001 CS_OFFL_SIR_IOPM_2_20221113T21821809_20001 CS_OFFL_SIR_IOPM_2_20221113T218289_20001 CS_OFFL_SIR_IOPM_2_20221113T218289_20001 CS_OFFL_SIR_IOPM_2_20221113T218289_20001 CS_OFFL_SIR_IOPM_2_20221113T218289_20001 CS_OFFL_SIR_IOPM_2_20221113T218289_20001 CS_OFFL_SIR_IOPM_2_20221113T22895_20001 CS_OFFL_SIR_IOPM_2_20221113T22895_20001 CS_OFFL_SIR_IOPM_2_20221113T22895_20001 CS_OFFL_SIR_IOPM_2_2	CS_OFFL_SIR_IOPM_2_20221113T193650_20221113T194401_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
ord Backscater Cuality, COCG Alternater Range and Backscater Cuality Flags have been addressed from the Cock Alternater Range and Backscater Cuality Flags have been addressed from the Cock Alternater Range and Backscater Cuality Flags have been set for one or more records CS_OFFL_SIR_JOPM_2_202211137201657_20221113720426_C001 CS_OFFL_SIR_JOPM_2_202211137204054_202211137204293_C001 CS_OFFL_SIR_JOPM_2_202211137204054_20221137204293_C001 CS_OFFL_SIR_JOPM_2_202211137204054_20221137204293_C001 CS_OFFL_SIR_JOPM_2_20221113720500_20221137204293_C001 CS_OFFL_SIR_JOPM_2_20221113720500_20221137204293_C001 CS_OFFL_SIR_JOPM_2_20221113720500_2022113720500_C002211137205	CS_OFFL_SIR_IOPM_2_20221113T194520_20221113T194800_C001		
and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_202211137204024_202211137204028_C001 CS_OFFL_SIR_IOPM_2_202211137204024_202211137204028_C001 CS_OFFL_SIR_IOPM_2_202211137204004_202211137204028_C001 CS_OFFL_SIR_IOPM_2_202211137204004_20221113720342_C001 CS_OFFL_SIR_IOPM_2_202211137205100_20221113721034_C001 CS_OFFL_SIR_IOPM_2_20221113720500_202211137213054_C001 CS_OFFL_SIR_IOPM_2_202211137216608_202211137213254_C001 CS_OFFL_SIR_IOPM_2_202211137216608_202211137213555_C001 CS_OFFL_SIR_IOPM_2_202211137213640_202211137213655_C001 CS_OFFL_SIR_IOPM_2_202211137213640_202211137213655_C001 CS_OFFL_SIR_IOPM_2_202211137213640_202211137215555_C001 CS_OFFL_SIR_IOPM_2_202211137214529_202211137215555_C001 CS_OFFL_SIR_IOPM_2_202211137215431_202211137215555_C001 CS_OFFL_SIR_IOPM_2_202211137215432_202211137215555_C001 CS_OFFL_SIR_IOPM_2_202211137215432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137215432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225432_2022111372215555_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223557_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223557_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223557_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223557_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223550_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223550_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223550_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223550_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223550_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223550_C001 CS_OFFL_SIR_IOPM_2_202211137225565_202211137223550	CS_OFFL_SIR_IOPM_2_20221113T195857_20221113T201053_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_202211137204034_20221137204233_C001 CS_OFFL_SIR_IOPM_2_202211137204034_20221137210545_C001 CS_OFFL_SIR_IOPM_2_202211137210608_2022113721315_C001 CS_OFFL_SIR_IOPM_2_20221137213635_C001 CS_OFFL_SIR_IOPM_2_20221137213639_20221137213835_C001 CS_OFFL_SIR_IOPM_2_20221137213649_20221137213835_C001 CS_OFFL_SIR_IOPM_2_20221137213649_20221137213835_C001 CS_OFFL_SIR_IOPM_2_20221137214529_20221137213555_C001 CS_OFFL_SIR_IOPM_2_20221137214529_20221137213555_C001 CS_OFFL_SIR_IOPM_2_20221137215734_20221137213555_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_20221137215734_2022113722355_C001 CS_OFFL_SIR_IOPM_2_2022113722355_C001 CS_	CS_OFFL_SIR_IOPM_2_20221113T201657_20221113T203245_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221113T205100_20221113T210554_C001 CS_OFFL_SIR_IOPM_2_20221113T2106100_20221113T212312_C001 CS_OFFL_SIR_IOPM_2_20221113T210608_20221113T212312_C001 CS_OFFL_SIR_IOPM_2_20221113T210608_20221113T212312_C001 CS_OFFL_SIR_IOPM_2_20221113T213631_20221113T21365_C001 CS_OFFL_SIR_IOPM_2_20221113T213640_20221113T213635_C001 CS_OFFL_SIR_IOPM_2_20221113T213640_20221113T21565_C001 CS_OFFL_SIR_IOPM_2_20221113T215631_20221113T215655_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T215555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T215555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T215255_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T215555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T22152_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221543_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221543_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221543_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221553_20021113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221553_20021113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221553_20021113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T222556_C0021113T222556_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T222556_C001 CS_OFFL_SIR_IOPM_2_20221113T222556_C001 CS_OFFL_SIR_IOPM_2_20221113T222556_C001 CS_OFFL_SIR_IOPM_2_20221113T222556_C001 CS_OFFL_SIR_IOPM_2_20221113T22556_C001 CS_OFFL_SIR_IOPM_2_20221113T2	CS_OFFL_SIR_IOPM_2_20221113T204021_20221113T204028_C001		
and Backscatter Quality. COCG Allimeter Range and Backscatter Quality. Good allimeter Range and Backscatter Quality. Good allimeter Range. SSHA, SWH and Backscatter Quality. Good Allimeter Range and Backscatter Quality. Good Allimeter Range. SSHA, SWH and Backscatter Quality. Good Allimeter Range and Backscatter Quality. Good Allimeter Range and Backscatter Quality. Good Backscat	CS_OFFL_SIR_IOPM_2_20221113T204034_20221113T204233_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Plags have been at the COCG Altimeter Range and Backscatter Quality Plags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221113T213631_20221113T213635_CO01 Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221113T215432_CO01 CS_OFFL_SIR_IOPM_2_20221113T215432_OCO1 CS_OFFL_SIR_IOPM_2_20221113T215432_OCO1 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T21555_CO01 CS_OFFL_SIR_IOPM_2_20221113T215432_OCO1 CS_OFFL_SIR_IOPM_2_20221113T221423_OCO21113T221121_CO01 CS_OFFL_SIR_IOPM_2_20221113T221423_OCO21113T221121_OCO1 CS_OFFL_SIR_IOPM_2_20221113T221423_OCO21113T221927_CO01 CS_OFFL_SIR_IOPM_2_20221113T221423_OCO21113T221927_CO01 CS_OFFL_SIR_IOPM_2_20221113T222759_OCC21113T222951_CO01 CS_OFFL_SIR_IOPM_2_20221113T224235_OCC21113T2223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T223655_OCC21113T223951_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T224946_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T224946_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T225800_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T225800_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T224946_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T224946_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T225800_CO01 CS_OFFL_SIR_IOPM_2_20221113T224735_OCC21113T225800_CO01 CS_OFFL_SIR_IOPM_2	CS_OFFL_SIR_IOPM_2_20221113T205100_20221113T210354_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221113T213649_20221113T213835_C001 CS_OFFL_SIR_IOPM_2_20221113T213649_20221113T213835_C001 CS_OFFL_SIR_IOPM_2_20221113T214529_20221113T215429_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T215555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T215555_C001 CS_OFFL_SIR_IOPM_2_20221113T215432_2022113T221212_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T2215255_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221555_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T22155_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T22155_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22275_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22275_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22275_C0021113T22255_C0021113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22255_C001 CS_OFFL_SIR_IOPM_2_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22550_C0011 CS_OFFL_SIR_IOPM_2_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T22255_C0021113T22550_C0011 CS_OFFL_SIR_IOPM_2_20221113T22550_C0021113T22550_C0011 CS_OFFL_SIR_IOPM_2_20221113T22550_C0021113T22550_C0011 CS_OFFL_SIR_IOPM_2_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T22550_C0021113T22550_C0011 CS_OFFL_SIR_IOPM_2_20221113T22550_C0021113T22550_C0011 C	CS_OFFL_SIR_IOPM_2_20221113T210608_20221113T212312_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221113T215429_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T21555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T21555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T21555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T21555_C001 CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T21555_C001 CS_OFFL_SIR_IOPM_2_20221113T215734_20221113T221121_C001 CS_OFFL_SIR_IOPM_2_20221113T215734_20221113T221121_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221121_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_	CS_OFFL_SIR_IOPM_2_20221113T213631_20221113T213635_C001		
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221113T215734_20221113T221121_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T22590_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C00	CS_OFFL_SIR_IOPM_2_20221113T213649_20221113T213835_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscat	CS_OFFL_SIR_IOPM_2_20221113T214529_20221113T215429_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001 CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T222927_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH 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_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG Altimeter Range, SSHA, SWH an	CS_OFFL_SIR_IOPM_2_20221113T215431_20221113T215555_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 Cs_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001 Cs_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 Cs_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 Cs_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Fla	CS_OFFL_SIR_IOPM_2_20221113T215734_20221113T221121_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatt	CS_OFFL_SIR_IOPM_2_20221113T221423_20221113T221927_C001		
CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 Cs_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, 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	CS_OFFL_SIR_IOPM_2_20221113T222759_20221113T222857_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscat	CS_OFFL_SIR_IOPM_2_20221113T223655_20221113T223951_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221113T224735_20221113T224946_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20221113T225109_20221113T225820_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20221113T232823_20221113T233208_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_20221113T233330_20221113T235023_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_20221113T235432_20221113T235844_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_20221113T235906_20221114T000055_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_20221113T204233_20221113T204426_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_20221113T225820_20221113T225943_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_20221113T055106_20221113T055454_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_20221113T085611_20221113T090132_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_20221113T180629_20221113T180839_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_20221113T212825_20221113T213524_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_20221113T230125_20221113T230154_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (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:

93

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20221113T000230_20221113T000302_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T001206_20221113T001319_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_20221113T001410_20221113T001733_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_20221113T014533_20221113T014647_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_20221113T023201_20221113T023337_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T030949_20221113T031122_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_20221113T034218_20221113T034552_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_20221113T050811_20221113T050833_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_20221113T050852_20221113T050903_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_20221113T054755_20221113T055106_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T072219_20221113T072459_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_20221113T072659_20221113T073230_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20221113T091112_20221113T091251_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T093955_20221113T094243_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T095915_20221113T100047_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_20221113T103950_20221113T104215_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_20221113T105015_20221113T105204_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_20221113T111720_20221113T112103_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_20221113T113614_20221113T114206_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T122902_20221113T123126_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_20221113T125904_20221113T130053_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_20221113T130948_20221113T131008_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_20221113T132120_20221113T132243_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_20221113T132332_20221113T132825_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_20221113T135831_20221113T140013_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_20221113T140121_20221113T140300_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_20221113T140738_20221113T140830_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_20221113T145824_20221113T150242_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_20221113T153838_20221113T154211_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_20221113T154744_20221113T154900_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T161705_20221113T161846_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_20221113T163720_20221113T163903_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_20221113T164018_20221113T164127_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_20221113T171754_20221113T172115_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_20221113T172628_20221113T172752_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_20221113T174811_20221113T175132_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_20221113T185506_20221113T185739_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T190530_20221113T190639_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20221113T203317_20221113T203457_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T204233_20221113T204426_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T214159_20221113T214528_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_20221113T222912_20221113T222950_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T223348_20221113T223618_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_20221113T223952_20221113T224521_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_20221113T230154_20221113T230706_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221113T235140_20221113T235432_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_20221112T235713_20221113T000230_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_20221113T000303_20221113T000417_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_20221113T004035_20221113T004308_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_20221113T005445_20221113T005633_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_20221113T013516_20221113T014532_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_20221113T023337_20221113T023658_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_20221113T031310_20221113T032044_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_20221113T033259_20221113T033346_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_20221113T035831_20221113T040208_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_20221113T041217_20221113T041623_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_20221113T050431_20221113T050750_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_20221113T050951_20221113T051317_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_20221113T053704_20221113T054126_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_20221113T055106_20221113T055454_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_20221113T063749_20221113T064044_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_20221113T071527_20221113T072219_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_20221113T081224_20221113T081642_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_20221113T081642_20221113T081751_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_20221113T085611_20221113T090132_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_20221113T091251_20221113T091315_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_20221113T095021_20221113T095237_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_20221113T110953_20221113T111357_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_20221113T111415_20221113T111553_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_20221113T112959_20221113T113614_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_20221113T114317_20221113T114328_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_20221113T131008_20221113T131103_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_20221113T131136_20221113T131626_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_20221113T135535_20221113T135831_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_20221113T144544_20221113T144651_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_20221113T144909_20221113T145824_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_20221113T153359_20221113T153838_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_20221113T154900_20221113T155134_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_20221113T162220_20221113T162534_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_20221113T162850_20221113T163720_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_20221113T163911_20221113T164018_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_20221113T171419_20221113T171754_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_20221113T172753_20221113T173200_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_20221113T180147_20221113T180609_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_20221113T180629_20221113T180839_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_20221113T181000_20221113T181749_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_20221113T181801_20221113T181815_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_20221113T190639_20221113T191029_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_20221113T204426_20221113T205059_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_20221113T212313_20221113T212608_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_20221113T212825_20221113T213524_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_20221113T215555_20221113T215734_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_20221113T230706_20221113T231421_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

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:

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:

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:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20221112T235950_20221113T004927_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_20221113T004927_20221113T013904_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_20221113T013904_20221113T022841_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221113T022841_20221113T031819_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_20221113T031819_20221113T040756_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221113T040756_20221113T045734_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_20221113T045734_20221113T054711_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221113T054711_20221113T063648_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_20221113T063648_20221113T072625_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_20221113T072625_20221113T081603_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_20221113T081603_20221113T090540_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_20221113T090540_20221113T095517_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_20221113T095517_20221113T104454_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_20221113T104454_20221113T113432_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_20221113T113432_20221113T122409_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_20221113T122409_20221113T131347_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_20221113T131347_20221113T140324_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_20221113T140324_20221113T145302_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_20221113T145302_20221113T154239_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_20221113T154239_20221113T163216_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_20221113T163216_20221113T172153_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_20221113T172153_20221113T181131_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_20221113T181131_20221113T190108_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_20221113T190108_20221113T195046_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_20221113T195046_20221113T204022_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_20221113T204022_20221113T213000_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_20221113T213000_20221113T221937_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_20221113T221937_20221113T230915_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_20221113T230915_20221113T235852_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220221113T013904_20221113T022841_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

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.

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: 2

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: 29

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: P2P Retracking Flags PLRM

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

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

Number of products with errors:

29

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	192	192	4	188	0
SIR_IOPR1B	120	103	3	100	0
SIR_IOPN1B	103	120	0	120	0
SIR_IOPM_2	192	192	141	51	0
SIR_IOPR_2	120	103	44	59	0
SIR_IOPN_2	103	120	33	86	1
SIR IOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

8

				Total number	of occurrences	of each error				
Product Type RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2 1	1	1	1							
Product Type RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_ 1	1	1	1							

Test Description Key:					
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

Product Type

SIR_IOPM1B

SIR_IOPM_2 SIR_IOPN1B

SIR_IOPN_2

SIR_IOPR1B

SIR_IOPR_2

Number of QCC reports with warnings

BCSHNCDF

188

100

117

2293

42

0

0

0

	Total number of occurrences of each warning							
HHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD			
	0	0	0	0	0			
	39	37	0	43	0			
	0	0	0	0	0			
	8	32	5	23	26			
	0	0	0	0	0			

2

39

26

	Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF
ſ	SIR_IOPM1B	0	0	0	0	0	0	0
	SIR_IOPM_2	36	0	0	31	0	0	0
	SIR_IOPN1B	0	0	0	0	0	0	0
	SIR_IOPN_2	18	19	0	0	0	21	0
	SIR_IOPR1B	0	0	0	0	0	0	0
	SIR IOPR 2	14	24	1	0	50	0	60

44

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	24	0	0	9	32	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	29	0	0	27	20	41	47
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	0	46	0	2	67	45

Donalis A. Toma	RSSHAONCDF	DOWNOEDEDNODE	RSWHOEPFDPLRMNCDF	DOWNOTONODE	SPHRTASCNSNCDF	COOUDITUD	SCSTODHRNCDF
Product Type	RSSHAUNCUF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRIASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_IOPM1B	0	0	0	0	1	0	0
SIR_IOPM_2	7	38	0	4	1	0	0
SIR_IOPN1B	0	0	0	0	0	0	48
SIR_IOPN_2	30	25	27	9	0	0	0
SIR_IOPR1B	0	0	0	0	0	0	120
SIR IOPR 2	10	47	54	3	0	4	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	17	29	29	7	29	17	28

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_IOP_2_	26	1	17	29	21	19	29
		•	•	,			,
Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•

SIR_IOP_2_	

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			

MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean - NetCDF
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: