

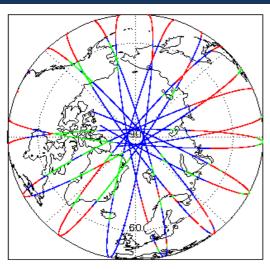
1. Overview

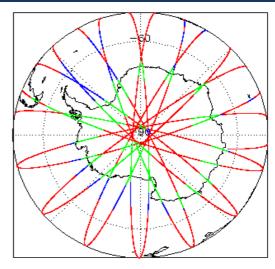
Report Production:	08-Mar-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

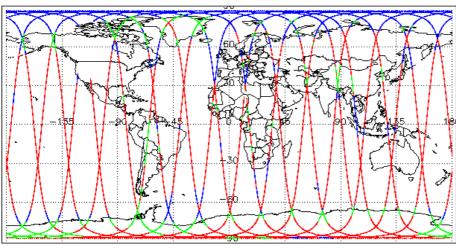
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

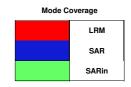
Mission / Instrument News	
05-Mar-2022	None
06-Mar-2022	None
07-Mar-2022	Nothing planned

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).

Number of products with errors:

0

4.2 L1B Product Header Analysis

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

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

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

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 update

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220306T160113_20220306T160742_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.

Number of products with errors:

10

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220306T181011_20220306T184510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220306T225221_20220306T225338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220306T004351_20220306T004842_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220306T071416_20220306T071735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220306T102932_20220306T103233_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220306T194358_20220306T194900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220306T221630_20220306T221848_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220306T225545_20220306T225926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220306T230712_20220306T230858_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220306T102505_20220306T102653_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:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

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:

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220306T120944_20220306T121017_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPM_2_20220306T154859_20220306T154924_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220306T004351_20220306T004842_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_20220306T030810_20220306T031032_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_20220306T044628_20220306T044940_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_20220306T062510_20220306T062828_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_20220306T063357_20220306T063522_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_20220306T071416_20220306T071735_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_20220306T081157_20220306T081338_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_20220306T085537_20220306T085634_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_20220306T094055_20220306T094237_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220306T094946_20220306T095200_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_20220306T103335_20220306T103549_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_IOPN_2_20220306T112005_20220306T112153_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220306T112839_20220306T113328_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_20220306T121017_20220306T121414_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220306T130950_20220306T131143_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_20220306T171955_20220306T172057_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220306T175820_20220306T175945_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_20220306T180455_20220306T180801_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_20220306T194358_20220306T194900_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_20220306T202827_20220306T202921_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220306T211834_20220306T212109_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_20220306T221352_20220306T221504_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_20220306T225545_20220306T225926_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_20220306T003713_20220306T004351_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_20220306T004931_20220306T005122_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_IOPR_2_20220306T021858_20220306T022417_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_20220306T034701_20220306T034905_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220306T035804_20220306T040602_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_20220306T053624_20220306T054534_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_20220306T071736_20220306T072455_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_20220306T085634_20220306T090216_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_20220306T090231_20220306T090353_C001	Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPR_2_20220306T103549_20220306T103916_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_20220306T103916_20220306T104236_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_20220306T121414_20220306T121935_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_20220306T135233_20220306T140222_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_20220306T153002_20220306T153649_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_20220306T153649_20220306T153742_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_20220306T154757_20220306T154859_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220306T170843_20220306T171547_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_20220306T171547_20220306T171713_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_20220306T184806_20220306T185447_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_20220306T185447_20220306T185905_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_20220306T202921_20220306T203341_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_20220306T203341_20220306T203453_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_20220306T220717_20220306T221204_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_20220306T221204_20220306T221352_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_20220306T232618_20220306T233158_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220306T234656_20220306T235313_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220306T160113_20220306T160742_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220306T000004_20220306T002250_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_20220306T005123_20220306T010114_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_20220306T010116_20220306T012604_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_20220306T013113_20220306T013553_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_20220306T013832_20220306T014232_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_20220306T014416_20220306T020416_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_20220306T023740_20220306T030517_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_20220306T031032_20220306T031626_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_20220306T031754_20220306T033734_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_20220306T033932_20220306T033955_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_20220306T034010_20220306T034701_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_20220306T040906_20220306T044352_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_20220306T044941_20220306T045458_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_20220306T045638_20220306T045938_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_20220306T050136_20220306T050315_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

OC OFFI OID IODM & 00000005T050005 00000005T050500 0004	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20220306T053235_20220306T053509_C001	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220306T054910_20220306T055745_C001	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_20220306T060031_20220306T062307_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_20220306T062828_20220306T062943_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_20220306T062951_20220306T063357_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_20220306T063522_20220306T064902_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_20220306T065050_20220306T065702_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_20220306T065842_20220306T070324_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_20220306T072817_20220306T080139_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_20220306T080333_20220306T080842_C001	Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220306T081503_20220306T081643_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_20220306T081942_20220306T085022_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_20220306T090604_20220306T090628_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_20220306T091009_20220306T092340_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_20220306T092507_20220306T094055_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_20220306T094237_20220306T094741_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_20220306T094820_20220306T094945_C001	Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220306T095713_20220306T100719_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_20220306T101338_20220306T102505_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_20220306T104728_20220306T104739_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_20220306T104759_20220306T110029_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_20220306T110047_20220306T110329_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_20220306T110509_20220306T111946_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_20220306T112153_20220306T112653_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_20220306T112735_20220306T112838_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_20220306T113349_20220306T115716_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_20220306T115839_20220306T120707_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_20220306T123011_20220306T123049_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_20220306T123626_20220306T125938_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_20220306T130236_20220306T130611_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_20220306T130633_20220306T130949_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_20220306T131217_20220306T134123_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_20220306T140222_20220306T140226_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_20220306T141346_20220306T143847_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_20220306T144020_20220306T144526_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_20220306T144533_20220306T144900_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_20220306T145201_20220306T152624_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_20220306T155320_20220306T155436_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_20220306T155453_20220306T155712_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_20220306T162020_20220306T162559_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_20220306T163124_20220306T170509_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_20220306T173832_20220306T175819_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_20220306T175945_20220306T180454_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_20220306T181011_20220306T184510_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_20220306T190932_20220306T191403_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_20220306T191449_20220306T193223_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_20220306T193518_20220306T193705_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_20220306T194150_20220306T194358_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_20220306T195049_20220306T202025_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_20220306T202610_20220306T202618_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_20220306T203957_20220306T205818_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_20220306T205915_20220306T211245_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_20220306T212110_20220306T212308_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_20220306T212950_20220306T214529_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_20220306T214731_20220306T215654_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_20220306T221504_20220306T221629_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_20220306T222452_20220306T223616_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_20220306T224219_20220306T224250_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_20220306T225926_20220306T230712_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_20220306T230902_20220306T232434_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_20220306T233717_20220306T233723_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_20220306T012705_20220306T012826_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_20220306T103335_20220306T103549_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_20220306T112005_20220306T112153_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_20220306T123049_20220306T123429_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_20220306T035804_20220306T040602_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_20220306T040736_20220306T040738_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_20220306T053624_20220306T054534_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_20220306T062307_20220306T062509_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_20220306T103549_20220306T103916_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_20220306T122010_20220306T122109_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_20220306T202456_20220306T202503_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_20220306T233159_20220306T233250_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20220306T002431_20220306T002754_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_20220306T002840_20220306T002956_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_20220306T004351_20220306T004842_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220306T020519_20220306T020617_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_20220306T020824_20220306T020930_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_20220306T021559_20220306T021659_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_20220306T021835_20220306T021858_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220306T030636_20220306T030756_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_20220306T030810_20220306T031032_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_20220306T044628_20220306T044940_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_20220306T045459_20220306T045614_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_20220306T051717_20220306T051901_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_20220306T063357_20220306T063522_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_20220306T065702_20220306T065745_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_20220306T065759_20220306T065842_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_20220306T071152_20220306T071237_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_20220306T071416_20220306T071735_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_20220306T080149_20220306T080332_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_20220306T081157_20220306T081338_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_20220306T085028_20220306T085203_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_20220306T090216_20220306T090231_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_20220306T094946_20220306T095200_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_20220306T103335_20220306T103549_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_20220306T112005_20220306T112153_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_20220306T121017_20220306T121414_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_20220306T123049_20220306T123429_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_20220306T141106_20220306T141214_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_20220306T155924_20220306T160113_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_20220306T171955_20220306T172057_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_20220306T173757_20220306T173832_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_20220306T175820_20220306T175945_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_20220306T193859_20220306T194150_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_20220306T194358_20220306T194900_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_20220306T202827_20220306T202921_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_20220306T203453_20220306T203918_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_20220306T212810_20220306T212950_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_20220306T221352_20220306T221504_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_20220306T221630_20220306T221848_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_20220306T223617_20220306T224219_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_20220306T225545_20220306T225926_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_20220306T003713_20220306T004351_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_20220306T012604_20220306T012705_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_20220306T021700_20220306T021835_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_20220306T021858_20220306T022417_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_20220306T034701_20220306T034905_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_20220306T035225_20220306T035423_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_20220306T035804_20220306T040602_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_20220306T040736_20220306T040738_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_20220306T052359_20220306T052730_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_20220306T052939_20220306T053107_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_20220306T053624_20220306T054534_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_20220306T054602_20220306T054625_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_20220306T071238_20220306T071416_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_20220306T071736_20220306T072455_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_20220306T072638_20220306T072816_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_20220306T085634_20220306T090216_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_20220306T090629_20220306T090849_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_20220306T090925_20220306T090942_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_20220306T090944_20220306T091004_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_20220306T095200_20220306T095713_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_20220306T101126_20220306T101338_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_20220306T102838_20220306T102932_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_20220306T103549_20220306T103916_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_20220306T103916_20220306T104236_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_20220306T110330_20220306T110509_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_20220306T121414_20220306T121935_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_20220306T135233_20220306T140222_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_20220306T152827_20220306T152830_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_20220306T162916_20220306T163124_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_20220306T170843_20220306T171547_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_20220306T171547_20220306T171713_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_20220306T171801_20220306T171903_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_20220306T172103_20220306T172439_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_20220306T172708_20220306T173031_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_20220306T184601_20220306T184606_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_20220306T184806_20220306T185447_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_20220306T185447_20220306T185905_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_20220306T194922_20220306T195049_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_20220306T202025_20220306T202453_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_20220306T202745_20220306T202827_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_20220306T202921_20220306T203341_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_20220306T211245_20220306T211834_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_20220306T214529_20220306T214731_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_20220306T220717_20220306T221204_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_20220306T221848_20220306T222452_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_20220306T232550_20220306T232618_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_20220306T232618_20220306T233158_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_20220306T233159_20220306T233250_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_20220306T234656_20220306T235313_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 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.

Number of products with errors:

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.

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:

0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220305T235242_20220306T004220_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_20220306T004220_20220306T013157_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_20220306T013157_20220306T022135_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_20220306T022135_20220306T031112_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_220220306T031112_20220306T040050_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_220220306T040050_20220306T045026_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_220220306T045026_20220306T054005_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_20220306T054005_20220306T062941_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_220220306T062941_20220306T071919_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_20220306T071919_20220306T080855_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_220220306T080855_20220306T085834_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_220220306T085834_20220306T094810_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_220220306T094810_20220306T103749_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_220220306T103749_20220306T112725_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_20220306T112725_20220306T121703_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_220220306T121703_20220306T130640_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_20220306T130640_20220306T135618_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_20220306T135618_20220306T144554_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_220220306T144554_20220306T153533_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_20220306T153533_20220306T162509_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_220220306T162509_20220306T171447_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_220220306T171447_20220306T180424_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_220220306T180424_20220306T185402_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_220220306T185402_20220306T194338_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_20220306T194338_20220306T203317_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_220220306T203317_20220306T212253_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_20220306T212253_20220306T221231_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_220220306T221231_20220306T230207_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_20220306T230207_20220306T235146_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220306T153533_20220306T162509_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.

lumber of products with errors:

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.

Number of products with errors:

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 full list of products affected.

Number of products with errors:

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors: 2

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.

lumber 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	198	198	0	198	0
SIR_IOPR1B	127	106	4	101	1
SIR_IOPN1B	106	127	0	127	0
SIR_IOPM_2	198	198	147	51	0
SIR_IOPR_2	127	105	45	60	0
SIR_IOPN_2	105	127	54	72	1
SIR IOP P2P	28	28	0	27	1

7.1 QCC Errors

Number of QCC reports with errors:

11

Total number of occurrences of each erro

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	RRTAISSOPOBHRNCDF	-	-	-	-	-
SIR_IOPN1B	0	0	0	0	1					
SIR_IOPR_2	1	1	1	1	0					

Product Type RLOBO	PNCDF RL	RLOBOPNCDF	RI	L	-	-	-	-	-	-	-
SIR_IOP_2_	1 1	1		1							
Test Description Key:											
Abbreviation	Test name	7N-+ODE	Details		0057	-1.0057					
RLOBOPNCDF RL	DF RangeLatitudeOrBlankOP_7NetCDF Latitude should be between -90E7 and 90E7 RangeLatitude_7 Latitude should be between -90E7 and 90E7										
RLOBOPNCDF	RangeLongitudeOrBlankOl	P_7NetCDF	Longitude	e should be bet	tween -180E	7 and 180E7					
RL BRTAISSOPOBHRNCE	RangeLongitude_7 RangeRecordTAlStartStop	OPOrBlankHRNetCDF		e should be bet value should b			art/stop times of t	he MPH with a marc	in of 0.5 s - NetCDF		
	1 3										
7.2 QCC Warning	gs										
lumber of QCC reports with warnings 2016											
Product Type	BCSHNCDF	IOHHMOOR		Tot		of occurrences MVIOEPNCDF	of each warn		RBSZOPOEPFDN	CDF RBSZC	POEPFDPLRMNCI
SIR_IOPM1B	198	0		0		0	0		0	0	
SIR_IOPM_2 SIR_IOPN1B	0 102	0		38		40 0	1		41 0	0	
SIR_IOPN 2	0	0		7		29	5		23	27	
SIR_IOPR1B	123	0		0		0	0		0	0	
SIR_IOPR_2	0	1		19		35	2		25	23	
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF		RPEPOPFDLF	RMNCDF		SARNCI RPEPO	PFDPLRMSINNCD	RPEPOPFDSARNO		PFDSINNCDF
SIR_IOPM1B SIR_IOPM_2	0 35	0		0 31		0	0		0	0	
SIR_IOPN1B	0	0		0		0	0		0	0	
SIR_IOPN_2 SIR_IOPR1B	15 0	0		0		0	18 0		0	27 0	
SIR_IOPR_2	12	1		0		34	0		41	0	
	RPEPOPLRMNCDF	RPEPOPSARNCDF		RPEPOPSINN	ICDE	RSSBCONCDF	BCCLL	OFDNCDF	RSSHAOFDPLRM	NCDE BCCLL	AONCDF
Product Type SIR_IOPM1B	0	0		0	CDP	0	0	OFDINODE	0	0	NONCOF
SIR_IOPM_2	22	0		0		3	31		0	4	
SIR_IOPN1B SIR IOPN 2	0	0		0 22		11	0 37		0 49	0 26	
SIR_IOPR1B	0	0		0		0	0		0	0	
SIR_IOPR_2	0	35		0		3	56		26	11	
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNO	CDF	RSWHOEPNO	CDF	SOOHHIFHD	SCSTC	DHRNCDF	SCSTODNCDF	-	
SIR_IOPM1B	0 36	0		0		0	0		0		
SIR_IOPM_2 SIR_IOPN1B	0	0		0		0	46		1		
SIR_IOPN_2	25	28		10		0	0		0		
SIR_IOPR1B SIR_IOPR_2	0 24	0 39		5		3	127 0		8		
	1										
Product Type SIR IOP 2	IOHHMOOR 16	MVIOEPFDNCDF 26		MVIOEPNCDF 26	-	MVIONCDF 8	28	POEPFDNCDF	RBSZOPOEPFDPI	26	DPOEPNCDF
				RPEPOPFDSI					RSSHAOFDNCDF		
Product Type SIR IOP 2	RNELPOTONCDF 1	RPEPOPFDPLRMSINN 17	NCDF	24	NNCDF	RPEPOPSINNCDI 18	13	ONCDF	28	17	AOFDPLRMNCDF
Product Type	RSSHAONCDE	RSWHOEPEDNCDE		RSWHOEPED	PI RMNCDE	RSWHOEPNCDE	SPHI P	OWNCDE	-	-	
Product Type SIR_IOP_2_	RSSHAONCDF 25	RSWHOEPFDNCDF 27		RSWHOEPFD	PLRMNCDF	RSWHOEPNCDF	SPHLP 28	QWNCDF	•	•	
					PLRMNCDF			QWNCDF	-	-	
SIR_IOP_2_					PLRMNCDF			QWNCDF	-	-	
SIR_IOP_2_ Product Type					PLRMNCDF			QWNCDF	-	-	
Product Type SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation	25 - Test name	27			PLRMNCDF	- Details	-		-	-	
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key:	25	27			PLRMNCDF	- Details	-		e previous burst co	-	
Product Type SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation	25 - Test name	27			PLRMNCDF	Details The burst counter	- 28	yher with regard to t	ne previous burst co		samples - 1)
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF	25 Test name BurstCounterStep20HzNett	27			PLRMNCDF	Details The burst counter The mapping of 20	should be one high	gher with regard to t surements should b		unter	. /
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping	27 CDF OutOfRange udingPolarFD2NetCDF			PLRMNCDF	Details The burst counter The mapping of 20 The value should r	should be one high	gher with regard to t surements should b value' for surface ty	e in the range 0 to (r	unter	nd 70 degrees
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclu	CDF OutOfRange udingPolarFD2NetCDF			PLRMNCDF	Details The burst counter The mapping of 20 The value should r	should be one high the beautiful of the a 'missing and be a 'missing	gher with regard to t surements should b value' for surface ty	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude:	unter	nd 70 degrees
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanNetC	CDF OutOfRange udingPolarFD2NetCDF udingPolarNetCDF		-	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The buckscatter si	should be one high to the a 'missing ont be a 'm	gher with regard to t surements should b value' for surface tyl value' for surface tyl value' for surface tyl	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude:	unter number of 1 Hz s s between -70 ar	nd 70 degrees
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclu MissingValueIntOceanExclu MissingValueIntOceanNetC RangeBackscatterSigmaZe	CDF COUNTO(Range UndingPolarFD2NetCDF UndingPolarNetCDF UndingPolarNetCDF UndingPolarNetCDF UndingPolarNetCDF UndingPolarNetCDF UndingPolarNetCDF	olarFD2Ne	17	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The backscatter si between -70 and 7 The backscatter si	should be one high the should be one high the should be a 'missing that be a 'missing that be a 'missing gma zero should of degrees gma zero should agma zero should the should should be a 'missing gma zero should the should should be a 'missing gma zero should the should the should the should be a 'missing gma zero should the	gher with regard to t surements should b value' for surface tyl value' for surface tyl value' for surface tyl be between 700 an	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude: be 0 only	unter unter unter s between -70 ar for surface type	nd 70 degrees nd 70 degrees = ocean for latitudes
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanNetC RangeBackscatterSigmaZe RangeBackscatterSigmaZe	CDF OutOfRange udingPolarFD2NetCDF udingPolarNetCDF cDF erroOPOceanExcludingPo	olarFD2Ne	17	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The backscatter si between -70 and 7 The backscatter si between -70 and 7	should be one high Hz to 1 Hz mea not be a 'missing not be a 'missing gma zero should 0 degrees gmazero should 0 degrees	gher with regard to t surements should b value' for surface tyl value' for surface tyl value' for surface tyl be between 700 an be between 700 an	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude: be 0 only d 7500 (or missing) f	unter sumber of 1 Hz s s between -70 ar s between -70 ar for surface type	nd 70 degrees nd 70 degrees = ocean for latitudes = ocean for latitudes
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclu MissingValueIntOceanExclu MissingValueIntOceanNetC RangeBackscatterSigmaZe	CDF OutOfRange udingPolarFD2NetCDF udingPolarNetCDF cDF erroOPOceanExcludingPo	olarFD2Ne	17	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The backscatter si between -70 and 7 The backscatter si between -70 and 7	should be one high the property of the a 'missing that be a 'missing t	gher with regard to t surements should b value' for surface tyl value' for surface tyl value' for surface tyl be between 700 an be between 700 an	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude: be 0 only d 7500 (or missing) to d 7500 (or missing) to	unter number of 1 Hz s s between -70 ar for surface type a for surface type a	nd 70 degrees nd 70 degrees = ocean for latitudes = ocean for latitudes = ocean for latitudes
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanNetC RangeBackscatterSigmaZe RangeBackscatterSigmaZe	CDF OutOfRange udingPolarFD2NetCDF udingPolarNetCDF udingPolarNetCDF erroOPOceanExcludingPo	olarFD2Ne	17	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The backscatter si between -70 and 7 The backscatter si between -70 and 7	should be one high the property of the a 'missing and the a 'missing and the a 'missing and the a 'missing are zero should 0 degrees and a zero should 0 degrees are should 0 degrees are should 0 degrees and property of the	gher with regard to t surements should b value' for surface tyl value' for surface tyl value' for surface tyl be between 700 an be between 700 an	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude: be 0 only d 7500 (or missing) f	unter number of 1 Hz s s between -70 ar for surface type a for surface type a	nd 70 degrees nd 70 degrees = ocean for latitudes = ocean for latitudes = ocean for latitudes
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF MVIOCEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RNELPOTONCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeNELPOceanTideOce	CDF COUNTO/Range UndingPolarFD2NetCDF UndingPolarNetCDF COPOceanExcludingPoerroOPOceanEx	olarFD2Ne olarFD2PL olarNetCD	17	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The value should r The backscatter si between -70 and 7 The backscatter si between -70 and 7 The backscatter si between -70 and 7 The Non-equilibriu for surface type = c The Peakiness sho	should be one high the property of the a 'missing grant be a 'miss	gher with regard to t surements should b value' for surface tyl value' for surface tyl value' for surface tyl be between 700 an be between 700 an be between 700 an	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude: be 0 only d 7500 (or missing) to d 7500 (or missing) to	unter bumber of 1 Hz s s between -70 ar s between -70 ar for surface type after surface	nd 70 degrees and 70 degrees coean for latitudes coean for latitudes coean for latitudes coean for latitudes
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RBSZOPOEPNCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeNELPOceanTideOce	CDF OutOfRange udingPolarFD2NetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF	olarFD2Ne olarFD2PL olarNetCD	17	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The backscatter si between -70 and 7 The backscatter si between -70 and 7 The Dackscatter si between -70 and 7 The Packines -70 and 7 The Peakiness she The Peakiness she The Peakiness she	should be one high the property of the a 'missing ont be a 'missing ont be a 'missing on the a 'missin	gher with regard to to surements should be value' for surface tylevalue' for surface tylevalue' for surface tylebe between 700 and be between 700 and be between 700 and and 6400 (or miss	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude: be 0 only d 7500 (or missing) to d 7500 (or missing) to d 7500 (or missing) to d 7500 (or missing) to	unter unter unter s between -70 ar s between -70 ar or surface type ar or surfac	nd 70 degrees ocean for latitudes coean for latitudes domm (or missing)
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF MVIOCEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSIN	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclu MissingValueIntOceanExclu MissingValueIntOceanNetC RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangePackinessExcludingI RangePeakinessExcludingI	CDF OutOfRange udingPolarFD2NetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF polarOPFD2LRMNetCDF	olarFD2Ne olarFD2PL olarNetCD F	17	PLRMNCDF	The burst counter The mapping of 20 The value should r The value should r The value should r The backscatter si between -70 and 7 The backscatter si between -70 and 7 The backscatter si between -70 and 7 The Packiness sh	should be one high the property of the a 'missing and the a 'missing and the a 'missing are should of degrees are should of degrees are should of degrees are should of degrees are should of the property of	gher with regard to t surements should b value' for surface tyl value' for surface tyl value' for surface tyl be between 700 an be between 700 an be between 700 an an loading tide hei 0 and 6400 (or miss	e in the range 0 to (r be 0 only for latitude: be 0 only for latitude: be 0 only d 7500 (or missing) to d 7500 (or missing) to d 7500 (or missing) to ght should be between ing) for surface type	uniter sumber of 1 Hz s s between -70 ar s between -70 ar for surface type ar for surface type ar for surface type ar en -40mm and 4 = ocean for latit	nd 70 degrees and 70 degrees
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SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPFDNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RRESZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDPRMSIN NCDF RPEPOPFDRANCDF RPEPOPFDSARNCDF RPEPOPFDSARNCDF RPEPOPFDSARNCDF RPEPOPFDSARNCDF RPEPOPSSARNCDF RPEPOPSSARNCDF RPEPOPSINNCDF RREPOPSINNCDF RSSBCONCDF RSSBCONCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangePeakinessExcluding!	CDF COUTO!Range IdingPolarFD2NetCDF IdingPolarFD2NetCDF IdingPolarNetCDF IdingPolarNetCDF IdingPolarNetCDF IdingPolarNetCDF IdingPolarNetCDF IdingPolarNetCDF IdingPolarOPFD2PLRMSARN IDINGPOLARNETCDF IDINGPOPFD2SARNetCDF IDINGPOPFD2SINNetCDF IDINGPOPSARNETCDF IDIN	olarFD2NetDlarFD2PL olarNetCDF etCDF F	17	PLRMNCDF	The burst counter The mapping of 20 The value should r The value should r The value should r The backscatter si between -70 and 7 The Peakiness should r The Sea surface h The se	should be one his but to 1 Hz mea not be a 'missing not be a 'missing not be a 'missing not be a 'missing gma zero should 0 degrees gma zero should 0 degrees mould be between but between	gher with regard to to surements should be value' for surface type value' for surface type value' for surface type be between 700 and 15000 (or miss to be between -500m tould be between -300m tou	e in the range 0 to (rope 0 only for latitude: be 0 only for surface type sing) for surface type ing) for surface type ing) for surface type ing) for surface type latitude: be 0 only for surface type ing) for surface type ing for sur	unter unter unmber of 1 Hz s s between -70 ar s between -70 ar s between -70 ar for surface type a for surface type and a surface a surface and a surface a surface a surface and a surface a	and 70 degrees and 70
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPRODF MVIOEPRODF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPSINNCDF RSSBCONCDF RSSBCONCDF RSSHAOFDNCDF RSSHAOFDNCDF RSSHAOFDNCDF RSSHAOFDPLRMNCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangePackinessExcluding! RangePeakinessExcluding! RangeSeaSurfaceHeightAr RangeSeaSurfaceHeightAr	CDF OutOfRange udingPolarFD2NetCDF udingPolarFD2NetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF polarOPFD2PLRMSARN polarOPFD2PLRMSARN polarOPFD2PLRMSINNetCDF polarOPFD2SINNetCDF polarOPFD2SINNetCDF polarOPSARNetCDF polarOPSARNetCDF polarOPSARNetCDF polarOPSINNetCDF	olarFD2Ne olarFD2PL olarNetCD F NetCDF etCDF F :	17 etCDF RMNetCDF F	PLRMNCDF	The burst counter The mapping of 20 The value should in The value should in The value should in The value should in The backscatter si between -70 and 7 The Peakiness should in the peakiness should ro degrees The Peakiness should 70 degrees The sea surface hocean The sea surface hocean The significant wan	should be one his but to 1 Hz mea not be a 'missing gma zero should 0 degrees gma zero should 0 degrees m long period oc occupation build be between build be between build be between build be between correction should eight anomaly sh	gher with regard to to surements should be value' for surface type value' for surface type value' for surface type be between 700 and 15000 (or miss to and 15000 (or miss t	e in the range 0 to (roe 0 only for latitude: the 0 only for surface type the 1 only for su	unter unter unter unmber of 1 Hz s s between -70 ar s between -70 ar s between -70 ar for surface type ar for surface type ar for surface type ar en -40mm and 4 = ocean for latit a = ocean for lat a = ocean for lat a = ocean for lat b = ocean for lat a = ocean for lat a = ocean for lat b = ocean for lat c = ocean	and 70 degrees and 70 latitudes and or missing) and and setween -70 and
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SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPRODF MVIOEPRODF MVIOEPRODF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDRMNCDF RPEPOPFDRMNCDF RSBCONCDF RSSHAOFDNCDF RSSHAOFDNCDF RSSHAOFDPLRMNCDF RSWHOEPFDNCDF RSWHOEPFDNCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanNetC RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangePackinessExcludingl RangePeakinessExcludingl RangeSeaSurfaceHeightAr RangeSignificantWaveHeig	CDF COUTO!Range udingPolarFD2NetCDF udingPolarFD2NetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarOPFD2LRMNetCDF udingPolarOPFD2PLRMSARN udingPolarOPFD2SARNetCDF udingOPFD2SARNetCDF udingOPFD2SARNetCDF udingOPFD2SARNetCDF udingOPFD2SARNetCDF udingOPSARNetCDF udingOPSARNetCDF udingOpeanFD3NetCDF udingOpeanFD3NetCDF udingOpeanFD3NetCDF udingOpeanFD3NetCDF udingOpeanFD3NetCDF udingOpeanRetCDF ud	polarFD2Ne polarFD2PL polarNetCDF etCDF F NetCDF F F NetCDF F FD2NetCDF	17 etCDF RMNetCDF F	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The value should r The value should r The backscatter si between -70 and 7 The Dackscatter si between -70 and 7 The Poakiness shound 70 degrees The Peakiness shound 70 degrees The sea surface hocean The sea surface hocean The significant wand taltitudes between The significant wand taltitudes between The significant wand taltitudes between	should be one his one of the a 'missing one of be a 'missing one of beaution of beaution one of beaution	gher with regard to to surements should be value' for surface type value' for surface type value' for surface type value' for surface type between 700 and be between 700 and be between 700 and be between 700 and be between 700 and 15000 (or miss to be between -3000 (or miss to be between -3000 (or miss to be between -3000 (or miss to be between 0 (or miss	e in the range 0 to (rope 0 only for latitude: be 0 only for surface type sing) for surface type mand 0mm (or mis 1000mm and 3000mm and 30	unter unter unmber of 1 Hz s s between -70 ar s between -70 ar s between -70 ar s between -70 ar s respectively a second for latite a coean for latite b coean for latite coean for latite b coean for latite b coean for latite b coean for latite coean for latite b coean for latite coean for latite coean for latite b coean for latite coe	and 70 degrees and 70 degree a
SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPRODF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDRMNCDF RSBCONCDF RSSHAOFDNCDF RSSHAOFDNCDF RSSHAOFDPLRMNCDF RSSHAOFDPLRMNCDF RSSHAOFDPLRMNCDF RSSHAOFDPLRMNCDF RSSHAOFDPLRMNCDF RSSHAOFDPLRMNCDF	Test name BurstCounterStep20HzNett IndexOf1Hzin20HzMapping MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt MissingValueIntOceanExclt RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangePackinessExcludingI RangePeakinessExcludingI RangeSeaSurfaceHeightAr RangeSeaSurfaceHeightAr RangeSeaSurfaceHeightAr RangeSeaSurfaceHeightAr RangeSignificantWaveHeig	CDF OutOfRange udingPolarFD2NetCDF udingPolarFD2NetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF udingPolarNetCDF polarOPFD2PLRMSARN polarOPFD2PLRMSARN polarOPFD2PLRMSINNetCDF polarOPFD2SINNetCDF polarOPFD2SINNetCDF polarOPFD2SINNetCDF udingPolarOPSARNetCDF polarOPSARNetCDF udingPolarOPSARNetCDF udingPolarOPSARNe	polarFD2Ne polarFD2PL polarNetCDF etCDF F NetCDF F F NetCDF F FD2NetCDF	17 etCDF RMNetCDF F	PLRMNCDF	Details The burst counter The mapping of 20 The value should r The value should r The value should r The value should r The backscatter si between -70 and 7 The Dackscatter si between -70 and 7 The Peakiness should r The Sea surface h Ocean The sea surface h Ocean The significant wal Latitudes between Latitudes	should be one his of the a 'missing ont be a 'missing ont be a 'missing ont be a 'missing ont be a 'missing one that is a management of the a 'missing one that is a missing one	gher with regard to to surements should be value' for surface type value' for surface value	e in the range 0 to (rope 0 only for latitude: one 0 only for surface (graph for surface type sing) for surface type	unter un	and 70 degrees and 70 degree

SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: