

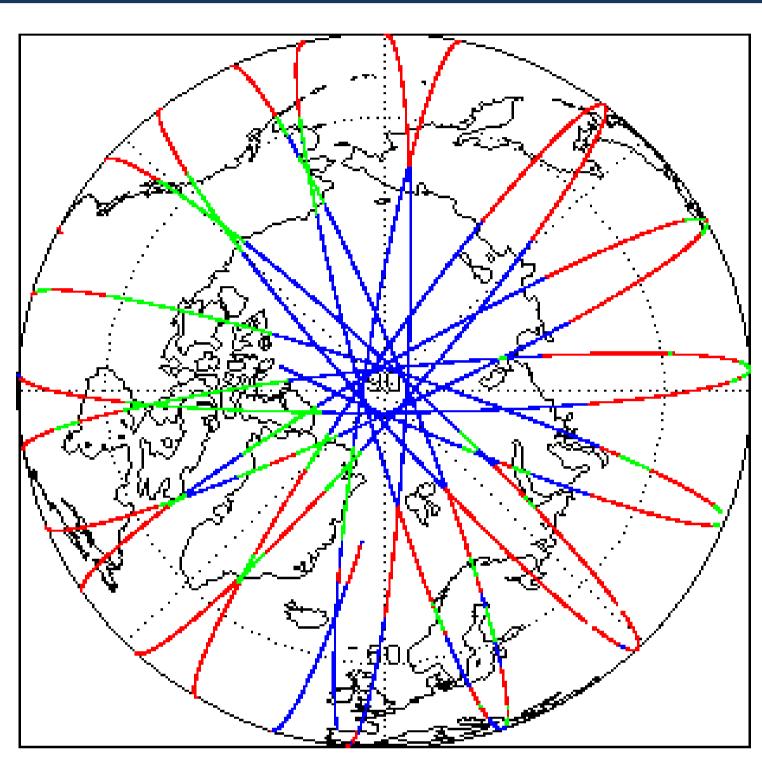
1. Overview

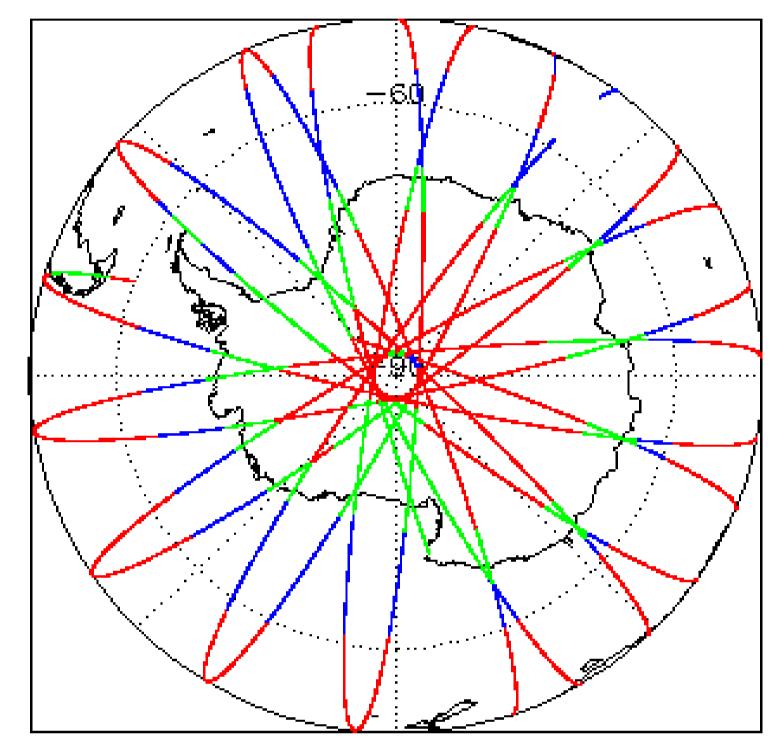
Report Production:	10-Aug-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

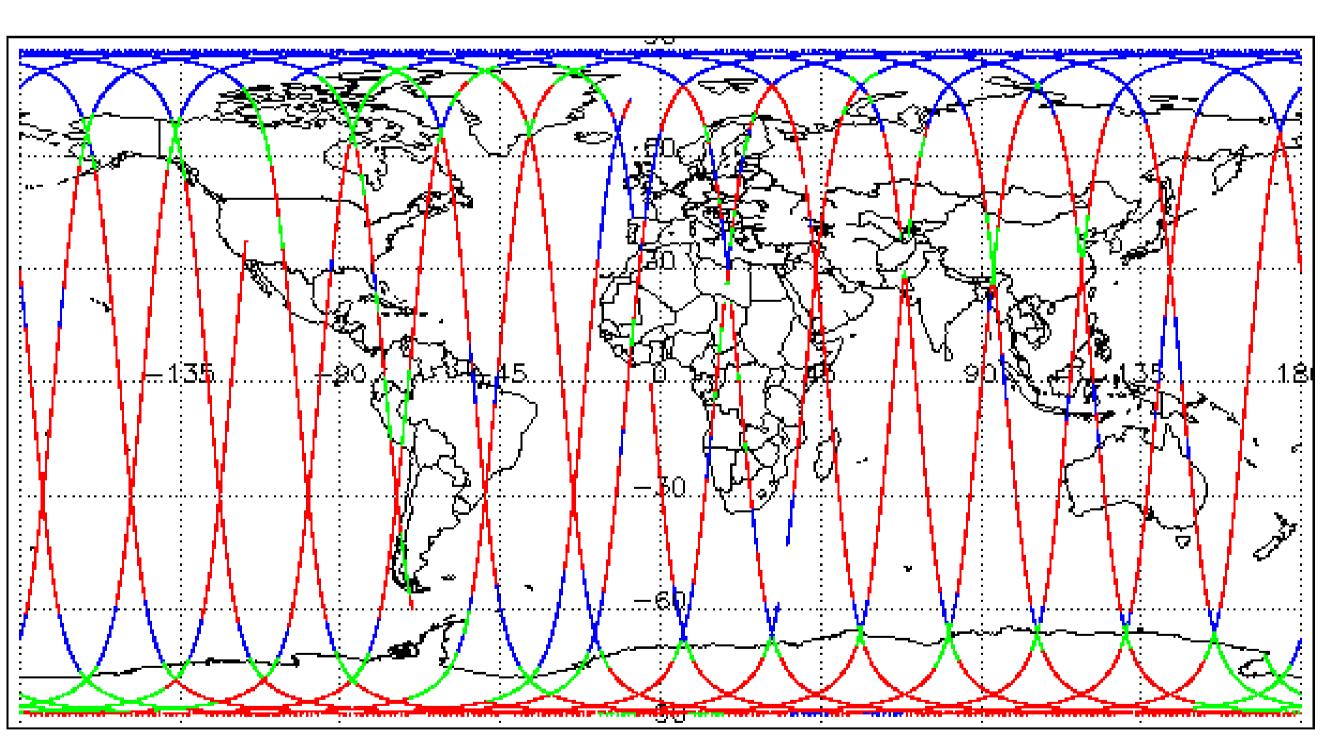
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

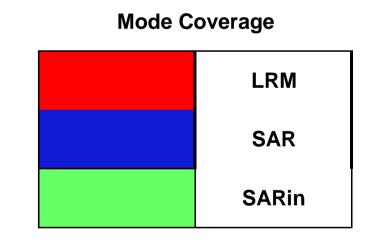
Mission / Instr	ument News
06-Aug-2020	None
07-Aug-2020	None
08-Aug-2020	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

2

0

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200807T032142_20200807T033821_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20200807T145429_20200807T150146_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:

12

Product	Test Failed	Description
CS_OFFL_SIR_IOPN1B_20200807T031603_20200807T031709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T045517_20200807T050102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T054754_20200807T055032_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T112634_20200807T112908_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T144219_20200807T144258_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T144511_20200807T144726_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T154816_20200807T155242_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T162053_20200807T162600_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T175846_20200807T180424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200807T194902_20200807T194938_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200807T030912_20200807T031117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200807T112909_20200807T113656_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

51

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200807T133551_20200807T133651_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20200807T142708_20200807T144218_C001	Mean Sea Surface (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 Total Geocentric Ocean Tide (solution 1:GOT and solution 2: FES), and the Non-Equilibrium Long Period Ocean Tide for one or more products.
CS_OFFL_SIR_IOPN_2_20200807T004134_20200807T004411_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_20200807T004605_20200807T005153_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_20200807T013650_20200807T013810_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200807T021945_20200807T022309_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_20200807T031603_20200807T031709_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_20200807T035907_20200807T040106_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_20200807T045517_20200807T050102_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200807T053840_20200807T053958_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_20200807T071802_20200807T071922_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_20200807T072013_20200807T072206_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200807T085751_20200807T090116_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_20200807T095634_20200807T095907_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_20200807T103655_20200807T104015_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_20200807T112634_20200807T112908_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_20200807T122420_20200807T122541_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_20200807T130707_20200807T130811_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_20200807T140131_20200807T140332_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_20200807T144511_20200807T144726_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_20200807T162053_20200807T162600_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_20200807T172050_20200807T172307_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_20200807T193659_20200807T194119_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_20200807T203020_20200807T203145_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_20200807T211851_20200807T212044_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_20200807T220952_20200807T221117_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_20200807T221632_20200807T221934_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_20200807T234954_20200807T235300_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_20200807T235534_20200808T000046_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_20200807T012930_20200807T013542_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_20200807T013542_20200807T013650_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_20200807T021812_20200807T021945_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20200807T030912_20200807T031117_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_20200807T031227_20200807T031602_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_20200807T044944_20200807T045516_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_20200807T063033_20200807T063535_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_20200807T080918_20200807T081737_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_20200807T094827_20200807T095633_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_20200807T111801_20200807T112114_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_20200807T112909_20200807T113657_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_20200807T130812_20200807T131513_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_20200807T144727_20200807T145254_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_20200807T162601_20200807T163124_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_20200807T180425_20200807T181259_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_20200807T181259_20200807T181342_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_20200807T194120_20200807T194902_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_20200807T212044_20200807T212725_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_20200807T212725_20200807T212859_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_20200807T225904_20200807T230625_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_20200807T230625_20200807T230819_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_20200807T231151_20200807T231817_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

5.5 L2 Measurement Confidence Data Check

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

2

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200807T032141_20200807T033821_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20200807T145429_20200807T150146_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

89

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200807T000003_20200807T000121_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_20200807T001138_20200807T003435_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_20200807T004412_20200807T004604_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_20200807T005351_20200807T010455_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_20200807T010616_20200807T010842_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_20200807T010845_20200807T011026_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_20200807T011507_20200807T012929_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_20200807T013811_20200807T014046_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_20200807T014203_20200807T015920_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_20200807T020121_20200807T021541_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_20200807T022310_20200807T022516_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_20200807T022610_20200807T023018_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_20200807T023249_20200807T024456_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_20200807T024613_20200807T024732_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_20200807T024933_20200807T025855_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_20200807T032141_20200807T033821_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_20200807T034346_20200807T035631_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_20200807T040107_20200807T040921_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_20200807T041234_20200807T042747_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_20200807T043051_20200807T043407_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_20200807T050102_20200807T050933_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_20200807T051019_20200807T053627_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_20200807T054241_20200807T054754_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_20200807T055247_20200807T061549_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_20200807T061906_20200807T062510_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_20200807T062905_20200807T062928_C001	• 1	The Ocean Altimeter Range, SSHA, SWH 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_20200807T064822_20200807T071502_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_20200807T072207_20200807T072811_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_20200807T073125_20200807T075852_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_20200807T080221_20200807T080917_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_IOPM_2_20200807T082118_20200807T085319_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_20200807T090116_20200807T090642_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_20200807T091031_20200807T091434_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_20200807T094519_20200807T094826_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_20200807T100013_20200807T100918_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_20200807T101203_20200807T103320_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_IOPM_2_20200807T104015_20200807T104121_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_20200807T105103_20200807T110553_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_IOPM_2_20200807T113657_20200807T121201_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_20200807T121538_20200807T122019_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_20200807T122039_20200807T122420_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_20200807T123121_20200807T130303_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_20200807T130408_20200807T130435_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_20200807T131513_20200807T132958_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_20200807T133440_20200807T133549_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_20200807T133713_20200807T135134_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_20200807T135402_20200807T135919_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_20200807T140933_20200807T142206_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_20200807T142513_20200807T142608_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.

COURT SELECT 2 2023/CPT (1994 2023/C			
OR OFF. BIR ICPN 2 2000027116493 00000771 0000 UD19 CELEFF_BIR_CPN 2_2000027116493 0000077 10000 UD19 CELEFF_BIR	CS_OFFL_SIR_IOPM_2_20200807T142708_20200807T144218_C001	•	
CS_OFF_BIR_ION_2_2_200000716744_010_0001 CS_OFF_BIR_ION_2_2_200000716744010_0001 CS_OFF_BIR_ION_2_2_20000071674010_0001 CS_OFF_BIR_ION_2_2_20000071774010_0001 CS_	CS_OFFL_SIR_IOPM_2_20200807T150438_20200807T151500_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Les Corres (Simil Corres) 2 2020007115005 (COC) Allower Flary and Education County of the Cocy Correspond County of the Cocy Control County of the Cocy Cocy Cocy Cocy Cocy Cocy Cocy Cocy	CS_OFFL_SIR_IOPM_2_20200807T151640_20200807T153024_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Company Comp	CS_OFFL_SIR_IOPM_2_20200807T153908_20200807T154010_C001	· ·	
CB CRF SRI 10PW 2 PROTEOTITISTES 20000007116000 CODE Ober Altered Range SBH, SWH Ober Altered Range S	CS_OFFL_SIR_IOPM_2_20200807T154705_20200807T154815_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_OPY_2_2000807T16155_2001007T16153_00101 CS_OFF_SIR_OPY_2_2000807T16155_2001007T16153_00101 CS_OFF_SIR_OPY_2_2000807T16155_2001007T16153_00101 CS_OFF_SIR_OPY_2_2000807T16155_2001007T16153_00101 CS_OFF_SIR_OPY_2_2000807T16155_2001007T176153_00101 CS_OFF_SIR_OPY_2_2000807T16155_2001007T176153_00101 CS_OFF_SIR_OPY_2_2000807T16155_2001007T176153_00101 CS_OFF_SIR_OPY_2_2000807T16155_2001007T176153_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T176153_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_2001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T17615_001007T17615_00101 CS_OFF_SIR_OPY_2_2000807T18014_2000807T17615_001007T176	CS_OFFL_SIR_IOPM_2_20200807T155243_20200807T155939_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dacksmatter Cusily Dacksmatter D	CS_OFFL_SIR_IOPM_2_20200807T160403_20200807T160852_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCG Altrender Range and Bucksouter Quality Flags have been set for one or none records. CS_OFFL_SIR_IDML_2_20000807118/107_22000807117/108_COOI CS_OFFL_SIR_IDML_2_20000807118/107_22000807117/108_COOI CS_OFFL_SIR_IDML_2_20000807117/107_22000807117/108_COOI CS_OFFL_SIR_IDML_2_20000807117/107_22000807117/108_COOI CS_OFFL_SIR_IDML_2_20000807117/108_COOI CS_OFFL_SIR_IDML_2_20000807118_000_COOI CS_OFFL_SIR_IDML_2_20000807118_0000_COOI CS_OFFL_SIR_IDML_2_20000807118_0000_COOI CS_OFFL_SIR_IDML_2_20000807118_0000_C	CS_OFFL_SIR_IOPM_2_20200807T161135_20200807T161723_C001		
Escisionary Caulity CS OFFL SIR IOPM 2 20208077164767 20208077177642 COO1 Ocean Artracter Range, SSHA, SWH and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range Quality OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range Quality OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range Quality OCEO Artracter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Artracter Range R	CS_OFFL_SIR_IOPM_2_20200807T161845_20200807T162053_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
arc backscater Quality COGG Altimeter Range and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200807171401_202008071171804_C001 CS_OFFL_SIR_JOPM_2_202008071771805_20208071171804_C001 CS_OFFL_SIR_JOPM_2_202008071772519_20208071171804_C001 CS_OFFL_SIR_JOPM_2_202008071772519_20208071171804_C001 CS_OFFL_SIR_JOPM_2_202008071772519_20208071173405_C001 CS_OFFL_SIR_JOPM_2_202008071772619_20208071173405_C001 CS_OFFL_SIR_JOPM_2_202008071772619_20208071173405_C001 CS_OFFL_SIR_JOPM_2_202008071772619_20208071173405_C001 CS_OFFL_SIR_JOPM_2_202008071772619_20208071173405_C001 CS_OFFL_SIR_JOPM_2_20200807173640_20208071173405_C001 CS_OFFL_SIR_JOPM_2_20200807173640_2020807118060_C001 CS_OFFL_SIR_JOPM_2_20200807173640_20208071180705_C001 CS_OFFL_SIR_JOPM_2_20200807173640_20208071180705_C001 CS_OFFL_SIR_JOPM_2_202008071736410_20208071180705_C001 CS_OFFL_SIR_JOPM_2_202008071736410_20208071180705_C001 CS_OFFL_SIR_JOPM_2_202008071736410_20208071180705_C001 CS_OFFL_SIR_JOPM_2_202008071736410_20208071180705_C001 CS_OFFL_SIR_JOPM_2_2020080717365710_20208071180705_C001 CS_OFFL_SIR_JOPM_2_2020080717365710_20208071180505_C001 CS_OFFL_SIR_JOPM_2_2020080717365710_20208071180505_C001 CS_OFFL_SIR_JOPM_2_2020080717365710_20208071180505_C001 CS_OFFL_SIR_JOPM_2_2020080717365710_20208071180505_C001 CS_OFFL_SIR_JOPM_2_2020080717365710_20208071180505_C001 CS_OFFL_SIR_JOPM_2_2020080717365014_20208071180505_C001 CS_OFFL_SIR_JOPM_2_2020080717365014_20208071180505_C001 CS_OFFL_SIR_JOPM_2_2020080717365014_20208071120504_C001 CS_OFFL_SIR_JOPM_2_2020080717365014_20208071120504_C001 CS_OFFL_SIR_JOPM_2_2020080717250044_2020807120505_C001 CS_OFFL_SIR_JOPM_2_2020080717250044_2020807120505_C001 CS_OFFL_SIR_JOPM_2_2020080717250044_2020807120505_C001 CS_OFFL_SIR_JOPM_2_202008071720044_2020807120505_C001 CS_OFFL_SIR_JOPM_2_202008071720044_2020807120505_C001 CS_OFFL_SIR_JOPM_2_202008071720044_2020807120505_C001 CS_OFFL_SIR_JOPM_2_202008071720044_2020807120505_C001 CS_OFFL_SIR_JOPM_2_202008071	CS_OFFL_SIR_IOPM_2_20200807T164021_20200807T164034_C001		
Backscatter Quality of or one or more records. CS_OFFL_SIR_IOPM_2_20200807T17155_20200807T171804_C001 CS_OFFL_SIR_IOPM_2_20200807T17155_20200807T171804_C001 CS_OFFL_SIR_IOPM_2_20200807T172519_20200807T175456_C001 CS_OFFL_SIR_IOPM_2_20200807T175454_20200807T175456_C001 CS_OFFL_SIR_IOPM_2_20200807T182440_20200807T184623_C001 CS_OFFL_SIR_IOPM_2_20200807T182440_20200807T186703_C001 CS_OFFL_SIR_IOPM_2_20200807T185710_20200807T190036_C001 CS_OFFL_SIR_IOPM_2_20200807T185710_20200807T190036_C001 CS_OFFL_SIR_IOPM_2_20200807T185710_20200807T190036_C001 CS_OFFL_SIR_IOPM_2_20200807T185014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T185014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T185014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T185014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T190355_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195135_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195135_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195135_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195135_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195135_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195135_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T20155_C001 CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20200807T164757_20200807T170842_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS OFFL SIR IOPM 2 20200807T172519 20200807T175149 C001 Ocean Altimeter Range, SSHA, SVH and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T178494 20200807T18495. C001 Ocean Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T182440 20200807T184923 C001 Ocean Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T185144 20200807T185703 C001 OCGA Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T185144 20200807T195035 C001 OCGA Altimeter Range Quality, CCOG Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T185710 2020807T195095 C001 OCGA Altimeter Range Quality, CCOG Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T195014 20200807T195095 C001 OCGA Altimeter Range Quality, CCOG Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T195014 20200807T19559 C001 OCGA Altimeter Range SSHA, SVH and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T195014 20200807T19553 C001 OCGA Altimeter Range, SSHA, SVH and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T195014 20200807T203341 C001 OCGA Altimeter Range, SSHA, SVH and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T203415 20200807T20341 C001 OCGA Altimeter Range, SSHA, SVH and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T203415 2020807T211550 C001 OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T203415 2020807T2035	CS_OFFL_SIR_IOPM_2_20200807T171401_20200807T171748_C001		
and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T175454 20200807T194823_CO01 CS OFFL SIR IOPM 2 20200807T182440_20200807T194823_CO01 CS OFFL SIR IOPM 2 20200807T182440_20200807T195703_CO01 CS OFFL SIR IOPM 2 20200807T185144_20200807T195703_CO01 CS OFFL SIR IOPM 2 20200807T185710 20200807T195703_CO01 CS OFFL SIR IOPM 2 20200807T185710 20200807T195703_CO01 CS OFFL SIR IOPM 2 20200807T190424 20200807T195365_CO01 CS OFFL SIR IOPM 2 20200807T190442 20200807T195365_CO01 CS OFFL SIR IOPM 2 20200807T190442 20200807T195365_CO01 CS OFFL SIR IOPM 2 20200807T200044_20200807T195365_CO01 CS OFFL SIR IOPM 2 20200807T200044_20200807T201853_CO01 CS OFFL SIR IOPM 2 20200807T200044_20200807T201853_CO01 CS OFFL SIR IOPM 2 20200807T203145 20200807T201853_CO01 CS OFFL SIR IOPM 2 20200807T203145 20200807T203841 CO01 CS OFFL SIR IOPM 2 20200807T203145 20200807T2038	CS_OFFL_SIR_IOPM_2_20200807T171755_20200807T171804_C001		
Backscatter Quality CS OFFL SIR IOPM_2 20200807T182440_20200807T184823_C001 CS OFFL SIR IOPM_2 20200807T182440_20200807T184823_C001 CS OFFL SIR IOPM_2 20200807T185144_20200807T185703_C001 CS OFFL SIR IOPM_2 20200807T185144_20200807T185703_C001 CS OFFL SIR IOPM_2 20200807T185144_20200807T190036_C001 CS OFFL SIR IOPM_2 20200807T195014_20200807T190036_C001 CS OFFL SIR IOPM_2 20200807T195014_20200807T190036_C001 CS OFFL SIR IOPM_2 20200807T195014_20200807T195036_C001 CS OFFL SIR IOPM_2 20200807T195014_20200807T195036_C001 CS OFFL SIR IOPM_2 20200807T195014_20200807T195036_C001 CS OFFL SIR IOPM_2 20200807T195014_20200807T195136_C001 CS OFFL SIR IOPM_2 20200807T200444_20200807T201953_C001 CS OFFL SIR IOPM_2 20200807T200442_20200807T201953_C001 CS OFFL SIR IOPM_2 20200807T20044_20200807T201953_C001 CS OFFL SIR IOPM_2 20200807T2004458_20200807T201953_C001 CS OFFL SIR IOPM_2 20200807T203445_20200807T201953_C001 CS OFFL SIR IOPM_2 20200807T203445_20200807T201953_C001 CS OFFL SIR IOPM_2 20200807T203445_20200807T203941_C001 CS OFFL SIR IOPM_2 20200807T203445_20200807T203941_C001 CS OFFL SIR IOPM_2 20200807T203445_20200807T203941_C001 CS OFFL SIR IOPM_2 20200807T203458_20200807T203941_C001 CS OFFL SIR IOPM_2 20200807T204528_20200807T211556_C001 CS OFFL SIR IOPM_2 20200807T204528_20200807T213115_C001 CS OFFL SIR IOPM_2 20200807T204528_20200807T21315_C001 CS OFFL SIR IOPM_2 20200807T204528_20200807T21315_C001 CS OFFL SIR IOPM_2 20200807T204528_20200807T203941_C001 CS OFFL SIR IOPM_2 20200807T204528_20200807T204528_20200807T204528_20200807T204528_202080807T204528_202080807T204528_202080807T204528_202080807T20	CS_OFFL_SIR_IOPM_2_20200807T172519_20200807T175149_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200807T185144_20200807T195703_C001 CS_OFFL_SIR_IOPM_2_20200807T185144_20200807T195036_C001 CS_OFFL_SIR_IOPM_2_20200807T195710_20200807T190036_C001 CS_OFFL_SIR_IOPM_2_20200807T195710_20200807T190036_C001 CS_OFFL_SIR_IOPM_2_20200807T190424_20200807T193659_C001 CS_OFFL_SIR_IOPM_2_20200807T190424_20200807T195136_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195136_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195136_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T201953 C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T201953 C001 CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T203941_C001 CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T203941_C001 CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T211866_C001 CS_OFFL_SIR_IOPM_2_20200807T2034528_20200807T211866_C001 CS_OFFL_SIR_IOPM_2_20200807T2034528_20200807T211866_C001 CS_OFFL_SIR_IOPM_2_20200807T2034528_20200807T211866_C001 CS_OFFL_SIR_IOPM_2_20200807T2034528_20200807T20345115_C001 CS_OFFL_SIR_IOPM_2_20200807T2034528_20200807T20345115_C001 CS_OFFL_SIR_IOPM_2_20200807T2034528_20200807T20345115_C001 CS_OFFL_SIR_IOPM_2_20200807T2034528_20200807T20345115_C001 CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T20345115_C001 CS_OFFL_SIR_IOPM_2_20200807T2045	CS_OFFL_SIR_IOPM_2_20200807T175454_20200807T175456_C001		
Backscatter Quality CS OFFL SIR IOPM 2 20200807T185710 20200807T190036 C001 CS OFFL SIR IOPM 2 20200807T195710 20200807T190036 C001 CS OFFL SIR IOPM 2 20200807T190424_20200807T193659_C001 CS OFFL SIR IOPM 2 20200807T190424_20200807T193659_C001 CS OFFL SIR IOPM 2 20200807T195014 20200807T193659_C001 CS OFFL SIR IOPM 2 20200807T195014 20200807T195136 C001 CS OFFL SIR IOPM 2 20200807T195014 20200807T195136 C001 CS OFFL SIR IOPM 2 20200807T195014 20200807T201953_C001 CS OFFL SIR IOPM 2 20200807T200044_20200807T201953_C001 CS OFFL SIR IOPM 2 20200807T200044_20200807T200041_C001 CS OFFL SIR IOPM 2 20200807T200044_20200807T200040_C001 CS OFFL SIR IOPM 2 20200807T200044_20200807T200040_C001 CS OFFL SIR IOPM 2 20200807T200044_20200807T200040_C001 CS OFFL SIR IOPM 2 20200807T200040_C001 CO Coan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T204528_20200807T211656_C001 CO Coan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T215744_20200807T213115_C001 CO Coan Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T215744_20200807T210537_C001 CO COAN Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS OFFL SIR IOPM 2 20200807T215744_20200807T213115_C001 CS OFFL SIR IOPM 2 20200807T215744_20200807T213115_C001 CO COAN Altimeter Range and Backscatter Quality	CS_OFFL_SIR_IOPM_2_20200807T182440_20200807T184823_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200807T190424_20200807T193659_C001 CS_OFFL_SIR_IOPM_2_20200807T190424_20200807T193659_C001 CS_OFFL_SIR_IOPM_2_20200807T190424_20200807T193659_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195136_C001 CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195136_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T201953_C001 CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211656_C001 CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211155C001 CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T21900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_	CS_OFFL_SIR_IOPM_2_20200807T185144_20200807T185703_C001		·
and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. OCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200807T185710_20200807T190036_C001		
CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T201953_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T203941_C001 CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T203941_C001 CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211656_C001 CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211656_C001 CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T220537_C001 CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T220537_C001 CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T220537_C001 CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T	CS_OFFL_SIR_IOPM_2_20200807T190424_20200807T193659_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T203941_C001 CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T203941_C001 CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211656_C001 CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211656_C001 CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T2115_C001 CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001 CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T220537_C001 CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T220537_C001 Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. COCOM Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. COCOM Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. COCOM Altimeter Range and Backscatter Quality Flags have been set for one or more records. COCOM Altimeter Range and Backscatter Quality Flags have been set for one or more records. COCOM Altimeter Range and Backscatter Quality Flags have been set for one or more records. COCOM Altimeter Range and Backscatter Quality Flags have been set for one or more records. COCOM Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200807T195014_20200807T195136_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records.	CS_OFFL_SIR_IOPM_2_20200807T200044_20200807T201953_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211656_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200807T203145_20200807T203941_C001		
CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20200807T204528_20200807T211656_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T220537_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200807T212900_20200807T213115_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20200807T215744_20200807T220537_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200807T221118_20200807T221631_C001 OCOG Altimeter Range Quality, OCOG In the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200807T221118_20200807T221631_C001		

CS_OFFL_SIR_IOPM_2_20200807T222338_20200807T224445_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_20200807T224730_20200807T225903_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_20200807T230819_20200807T231150_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_20200807T232731_20200807T233337_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_20200807T233525_20200807T234534_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200807T023019_20200807T023155_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200807T062835_20200807T062905_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200807T092137_20200807T092216_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_20200807T135226_20200807T135402_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_20200807T171048_20200807T171400_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_20200807T171804_20200807T171810_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_20200807T175846_20200807T180424_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_20200807T011026_20200807T011507_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_20200807T145254_20200807T145428_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 (20Hz PLRM)

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200807T004134_20200807T004411_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_20200807T004605_20200807T005153_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_20200807T013650_20200807T013810_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_20200807T021641_20200807T021811_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_20200807T023019_20200807T023155_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_20200807T025855_20200807T030102_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_20200807T031759_20200807T031854_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_20200807T033822_20200807T034346_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_20200807T035907_20200807T040106_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_20200807T043609_20200807T043956_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_20200807T045517_20200807T050102_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_20200807T054754_20200807T055032_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_20200807T061549_20200807T061618_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_20200807T072013_20200807T072206_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_20200807T081737_20200807T082117_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200807T085751_20200807T090116_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_20200807T092701_20200807T092720_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_20200807T093948_20200807T093958_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_20200807T095634_20200807T095907_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_20200807T103655_20200807T104015_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_20200807T121347_20200807T121538_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_20200807T122420_20200807T122541_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_20200807T135226_20200807T135402_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_20200807T140131_20200807T140332_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_20200807T150146_20200807T150437_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_20200807T154816_20200807T155242_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_20200807T155939_20200807T160403_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_20200807T160853_20200807T161015_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_20200807T161723_20200807T161845_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_20200807T162053_20200807T162600_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_20200807T164158_20200807T164557_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_20200807T171048_20200807T171400_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_20200807T172050_20200807T172307_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_20200807T175846_20200807T180424_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_20200807T181430_20200807T181552_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_20200807T182036_20200807T182147_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_20200807T182416_20200807T182439_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_20200807T185016_20200807T185143_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_20200807T193659_20200807T194119_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_20200807T203020_20200807T203145_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_20200807T213116_20200807T213150_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200807T213300_20200807T213422_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_20200807T214657_20200807T214841_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_20200807T220952_20200807T221117_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_20200807T221632_20200807T221934_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_20200807T232533_20200807T232730_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_20200807T234954_20200807T235300_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_20200807T235534_20200808T000046_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_20200807T003435_20200807T004134_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_20200807T005154_20200807T005351_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_20200807T015921_20200807T020121_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200807T021812_20200807T021945_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_20200807T035632_20200807T035907_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_20200807T044816_20200807T044944_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_20200807T050933_20200807T051018_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_20200807T053627_20200807T053840_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_20200807T062637_20200807T062835_C001	TAITIMATER RANGE AND BACKSCATTER CHAILTY	The Ocean Altimeter Range, SSHA, SWH 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_20200807T071502_20200807T071801_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_20200807T085320_20200807T085751_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_20200807T090801_20200807T091031_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_20200807T094827_20200807T095633_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_20200807T100918_20200807T101202_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_20200807T103321_20200807T103654_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_20200807T104657_20200807T105103_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_20200807T111801_20200807T112114_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_20200807T112547_20200807T112634_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_20200807T112909_20200807T113657_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_20200807T122542_20200807T123121_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_20200807T130812_20200807T131513_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_20200807T140333_20200807T140932_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_20200807T142300_20200807T142513_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_20200807T163135_20200807T163234_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_20200807T170843_20200807T171048_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_20200807T172307_20200807T172519_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_20200807T180425_20200807T181259_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_20200807T190159_20200807T190424_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_20200807T194120_20200807T194902_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_20200807T202747_20200807T203020_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_20200807T204054_20200807T204528_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 180

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 56

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

6. OP 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).

142

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

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:

30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200806T235557_20200807T004536_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_220200807T004536_20200807T013512_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_220200807T013512_20200807T022451_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_220200807T022451_20200807T031426_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_220200807T031426_20200807T040405_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_220200807T040405_20200807T045341_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_220200807T045341_20200807T054320_C001	Topography (1), Total Geocentric Ocean	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_220200807T054320_20200807T063256_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_220200807T063256_20200807T072235_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Familibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200807T072235_20200807T081211_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_220200807T081211_20200807T090150_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_220200807T090150_20200807T095125_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_220200807T095125_20200807T104104_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_220200807T104104_20200807T113040_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_220200807T113040_20200807T122019_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_220200807T122019_20200807T130955_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_220200807T130955_20200807T135934_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_220200807T135934_20200807T144909_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200807T144909_20200807T153848_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_220200807T153848_20200807T162824_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_220200807T162824_20200807T171803_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_220200807T171803_20200807T180739_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_220200807T180739_20200807T185718_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_220200807T185718_20200807T194653_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_220200807T194653_20200807T203633_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_220200807T203633_20200807T212608_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_220200807T212608_20200807T221547_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_220200807T221547_20200807T230523_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_220200807T230523_20200807T235502_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200807T235502_20200808T004437_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.

2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200807T031426_20200807T040405_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220200807T144909_20200807T153848_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 29

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 29

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 27

P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	146	146	3	143	0
SIR_IOPR1B	99	99	0	99	0
SIR_IOPN1B	99	99	2	97	0
SIR_IOPM_2	146	146	93	53	0
SIR_IOPR_2	99	99	24	75	0
SIR_IOPN_2	99	99	37	62	0
SIR_IOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

0

7.2 QCC Warnings

Number of QCC reports with warnings

2109

Total number of occurrences of each warning

				301 01 000a11011000 01 00			
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOPM1B	143	0	0	0	0	0	0
SIR_IOPM_2	0	35	37	1	38	0	34
SIR_IOPN1B	95	0	0	0	0	0	0
SIR_IOPN_2	0	9	33	4	25	29	21

Product Type	RDTCONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	30	0	0	0	0	28
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	1	0	0	27	0	34	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	0	47	0	52	0	0

0 33

0

0 36

SIR_IOPR1B

SIR_IOPR_2

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	0	6	22	0	2	31
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	29	16	43	52	27	32
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	46	0	2	60	47	13	38

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR_IOPM1B	0	0	0	0	0		
SIR_IOPM_2	0	1	0	0	0		
SIR_IOPN1B	0	0	0	44	3		
SIR_IOPN_2	33	17	1	0	0		
SIR_IOPR1B	0	0	0	99	7		
SIR IOPR 2	48	2	0	0	0		

SIR_IOP_2_ 13 29 29 5 29 17 29	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
	SIR_IOP_2_	13	174	29	5	179	17	29

Product Type	RDTCONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	1	18	29	25	17	29	19

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	•
	24	29	17	116	29		

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RDTCONCDF	RangeDryTroposphericCorrectionOceanNetCDF	The Dry tropospheric correction should be between -2500mm and -1900mm (or missing) for surface type = ocean - NetCDF			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch			
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