

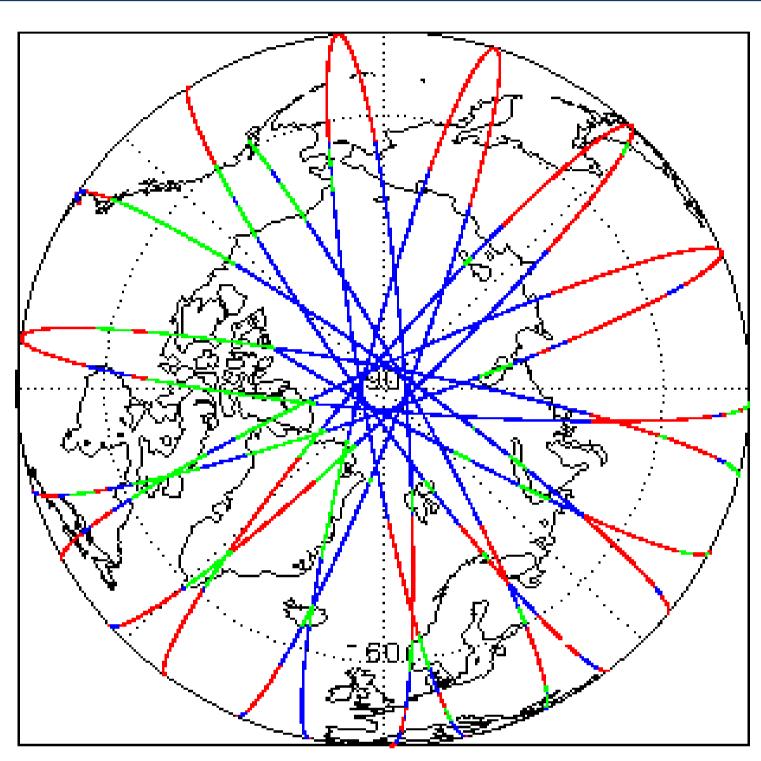
# 1. Overview

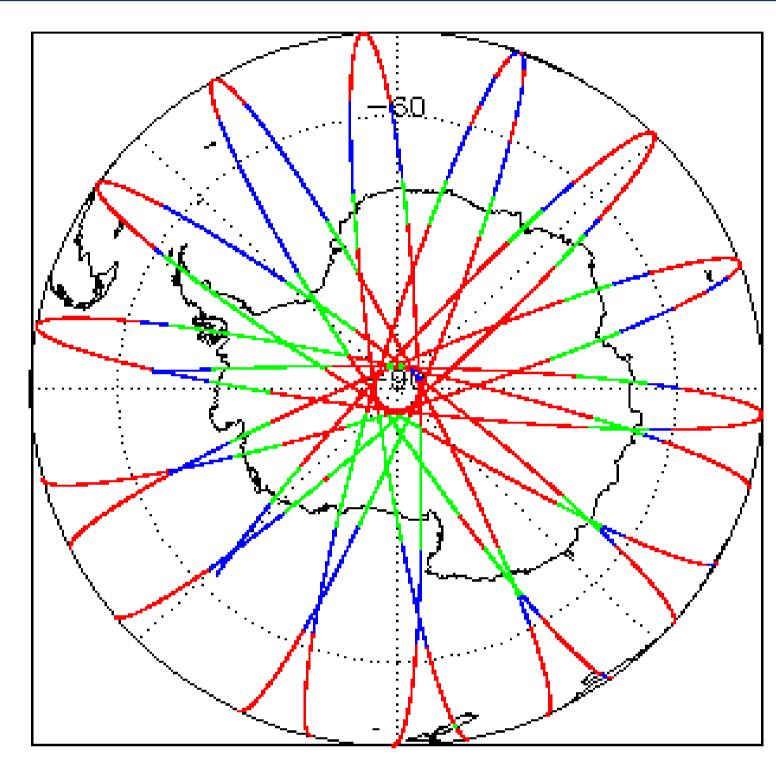
Report Production:	06-Jul-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

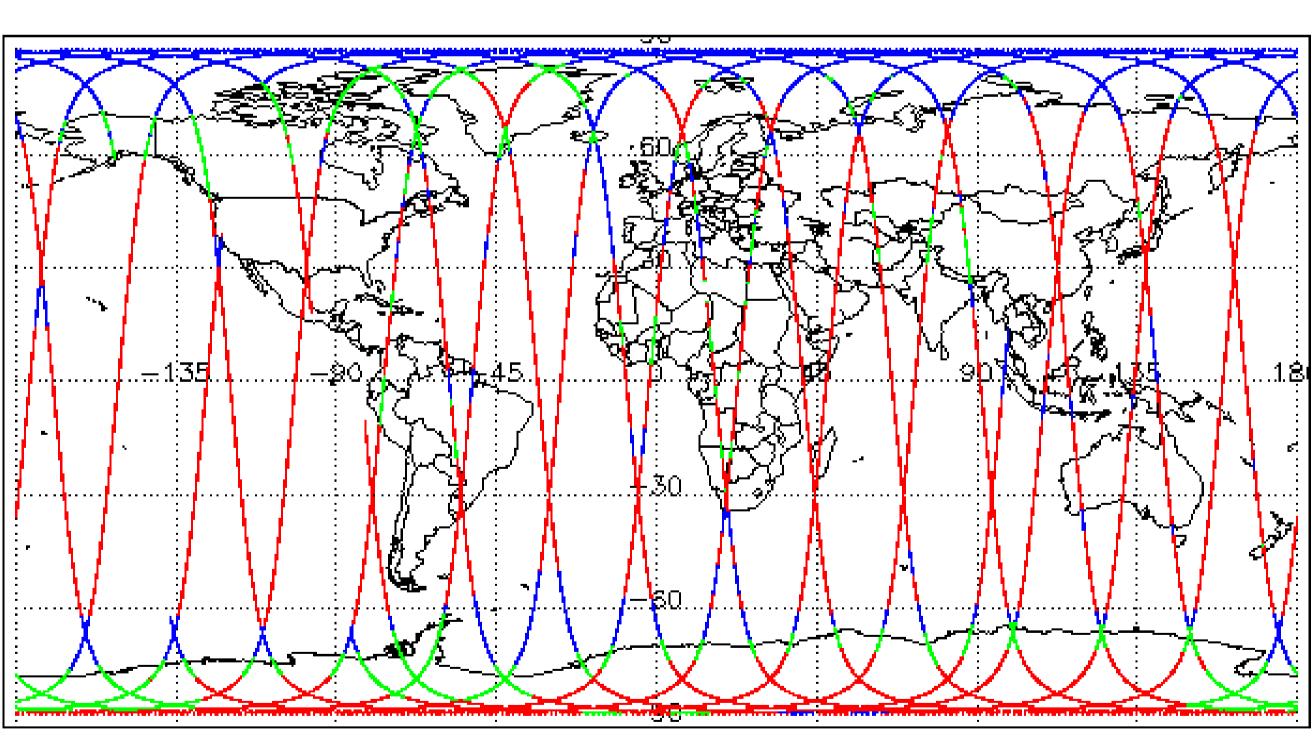
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

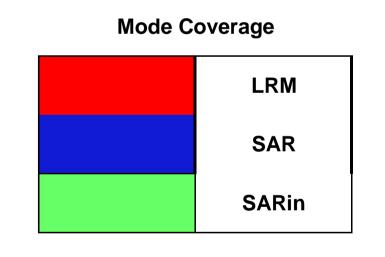
Miss	sion / Instru	ment News
02	-Jul-2021	None
03	-Jul-2021	None
04	-Jul-2021	Nothing planned

# 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_20210703T171804_20210703T172028_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20210703T211442_20210703T212414_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:

16

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210703T031919_20210703T033910_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T045006_20210703T045215_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T093601_20210703T093639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T094041_20210703T094253_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T101619_20210703T102218_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T125441_20210703T125931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T175714_20210703T175749_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T192243_20210703T192328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T192507_20210703T192825_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T224022_20210703T224052_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210703T224100_20210703T224323_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210703T025213_20210703T025956_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210703T124806_20210703T125441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210703T151416_20210703T151728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210703T170707_20210703T170912_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210703T193512_20210703T193614_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

### **5.1 L2 Product Format Check**

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

Number of products with errors: 0

## **5.2 L2 Product Header Analysis**

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

Number of products with errors: 0

#### **5.3 L2 Auxiliary Data File Usage Check**

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

Number of products with errors:

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## **5.4 L2 Auxiliary Correction Error Check**

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210703T044110_20210703T044322_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_20210703T125931_20210703T130011_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Fauilibrium 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_20210703T003021_20210703T003338_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_20210703T011130_20210703T011519_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_20210703T024606_20210703T025213_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20210703T034044_20210703T034207_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_20210703T035023_20210703T035141_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_20210703T045006_20210703T045215_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_20210703T052026_20210703T052153_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_20210703T052715_20210703T053024_C001	Mean Sea Surface (1), Mean 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_20210703T062327_20210703T062443_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_20210703T070009_20210703T070146_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_20210703T070615_20210703T070944_C001	Mean Sea Surface (1), Mean 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_20210703T084053_20210703T084328_C001	Mean Sea Surface (1), Mean 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_20210703T093601_20210703T093639_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_20210703T101619_20210703T102218_C001	Mean Sea Surface (1), Mean 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_20210703T102933_20210703T103111_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_20210703T111527_20210703T111739_C001	Mean Sea Surface (1), Mean 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_20210703T115821_20210703T120008_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_20210703T120841_20210703T121037_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_20210703T142925_20210703T142948_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_20210703T151902_20210703T152124_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_20210703T183601_20210703T183921_C001	Mean Sea Surface (1), Mean 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_20210703T184449_20210703T184614_C001	Mean Sea Surface (1), Mean 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_20210703T192507_20210703T192825_C001	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_20210703T202249_20210703T202431_C001	Mean Sea Surface (1), Mean 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_20210703T210627_20210703T210724_C001	Mean Sea Surface (1), Mean 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_20210703T215146_20210703T215328_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_20210703T220038_20210703T220252_C001	Mean Sea Surface (1), Mean 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_20210703T224425_20210703T224639_C001	Mean Sea Surface (1), Mean 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_20210703T233056_20210703T233245_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_20210703T233931_20210703T234420_C001	Mean Sea Surface (1), Mean 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_20210703T011519_20210703T012349_C001	Mean Sea Surface (1), Mean 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_20210703T025213_20210703T025956_C001	Mean Sea Surface (1), Mean 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_20210703T043145_20210703T043638_C001	Mean Sea Surface (1), Mean 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_20210703T043638_20210703T044110_C001	Mean Sea Surface (1), Mean 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_20210703T044933_20210703T045006_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_20210703T060852_20210703T061706_C001	Mean Sea Surface (1), Mean 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_20210703T061706_20210703T061839_C001	Mean Sea Surface (1), Mean 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_20210703T074942_20210703T075604_C001	Mean Sea Surface (1), Mean 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_20210703T075604_20210703T075731_C001	Mean Sea Surface (1), Mean 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_20210703T092838_20210703T093450_C001	Mean Sea Surface (1), Mean 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_20210703T093450_20210703T093601_C001	Mean Sea Surface (1), Mean 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_20210703T111117_20210703T111226_C001	Mean Sea Surface (1), Mean 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_20210703T111226_20210703T111527_C001	Mean Sea Surface (1), Mean 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_20210703T124806_20210703T125441_C001	Mean Sea Surface (1), Mean 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_20210703T142948_20210703T143506_C001	Mean Sea Surface (1), Mean 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_20210703T155752_20210703T155956_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_20210703T160854_20210703T161651_C001	Mean Sea Surface (1), Mean 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_20210703T174716_20210703T175623_C001	Mean Sea Surface (1), Mean 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_20210703T192825_20210703T193512_C001	Mean Sea Surface (1), Mean 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_20210703T210724_20210703T211305_C001	Mean Sea Surface (1), Mean 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_20210703T211320_20210703T211442_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPR_2_20210703T224639_20210703T225032_C001	Mean Sea Surface (1), Mean 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_20210703T225032_20210703T225334_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.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210703T171804_20210703T172028_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_20210703T211442_20210703T212414_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.

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Product	Test Failed	Description
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20210703T000454_20210703T002013_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210703T002352_20210703T002832_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_20210703T005833_20210703T010923_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_20210703T013428_20210703T015944_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_20210703T020247_20210703T020732_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_20210703T020736_20210703T020746_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_20210703T021447_20210703T024115_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_20210703T024315_20210703T024606_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_20210703T030407_20210703T030919_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_20210703T030953_20210703T031218_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_20210703T031919_20210703T033910_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_20210703T034207_20210703T034647_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_20210703T051226_20210703T051501_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_20210703T051700_20210703T051807_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_20210703T052153_20210703T052715_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_20210703T053404_20210703T055522_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_20210703T055808_20210703T060852_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_20210703T061922_20210703T062326_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_20210703T063927_20210703T064416_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_20210703T064604_20210703T065633_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_20210703T070146_20210703T070615_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_20210703T071322_20210703T071827_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_20210703T071837_20210703T072405_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.

22 OFFLOR 1001 2 72 1000 1 001 2 10 1001 2 10	CS_OFFL_SIR_IOPM_2_20210703T072447_20210703T074942_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.
Page	CS_OFFL_SIR_IOPM_2_20210703T080430_20210703T080925_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Security Company   Application   Applicati	CS_OFFL_SIR_IOPM_2_20210703T081056_20210703T083354_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Les Cortes Sills (1994) 2 (2014) 00714 (1994	CS_OFFL_SIR_IOPM_2_20210703T084329_20210703T084522_C001		
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CS OFFL SRI (DPM 2 729107251109094 200107011001945 COOL	CS_OFFL_SIR_IOPM_2_20210703T085255_20210703T085841_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SE_OFFL_SRI_OPV_2_20210700716932_20210700716935_0001  SE_OFFL_SRI_OPV_2_20210700716935_0001  SE_OFFL_SRI_	CS_OFFL_SIR_IOPM_2_20210703T085911_20210703T090822_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
### ORDER ALTERNATION   2012/0707109192_20210707109194_2001    CS_OFFL_SIR_IOPML2_20210705709372_20210707109194_2001   CS_OFFL_SIR_IOPML2_20210705709372_202107057109194_2001   CS_OFFL_SIR_IOPML2_20210705709372_202107057109194_2001   CS_OFFL_SIR_IOPML2_202107057109109_2001   CS_OFFL	CS_OFFL_SIR_IOPM_2_20210703T090824_20210703T090943_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Buckscatter Quality  CS_OFFL_SIR_JOPV_2_202107031704930_20210703110444_CO11  CS_OFFL_SIR_JOPV_2_20210703170500_20210703105022_CO1  CS_OFFL_SIR_JOPV_2_20210703170500_20210703110545_CO10  CS_OFFL_SIR_JOPV_2_202107031710545_CO10  CS_OFFL_SIR_JOPV_2_202107031710545_CO10  CS_OFFL_SIR_JOPV_2_202107031710545_CO10  CS_OFFL_SIR_JOPV_2_202107031710545_CO10  CS_OFFL_SIR_JOPV_2_202107031710545_CO10  CS_OFFL_SIR_JOPV_2_202107031710545_CO10  CS_OFFL_SIR_JOPV_2_202107031710545_CO10  CS_OFFL_SIR_JOPV_2_202107031710546_CO10  CS_OFFL_SIR_JOPV_2_202107031710546_C	CS_OFFL_SIR_IOPM_2_20210703T091424_20210703T092134_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and floadscarbed Quality CODG Alternate Range and Backscarber Quality Flags have been serviced from the Code Alternate Range and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags have been serviced from the Code Alternate Flags and Backscarber Quality Flags	CS_OFFL_SIR_IOPM_2_20210703T093722_20210703T094041_C001		
and Backscatter Quality Flags have been Animeter Range and Backscatter Quality Flags have been Animeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210703T10040_20210703T10545_C001  CS_OFFL_SIR_IOPM_2_20210703T100249_20210703T10247_C001  CS_OFFL_SIR_IOPM_2_20210703T100249_20210703T10247_C001  CS_OFFL_SIR_IOPM_2_20210703T100249_20210703T10247_C001  CS_OFFL_SIR_IOPM_2_20210703T100249_20210703T100415_C001  CS_OFFL_SIR_IOPM_2_20210703T100247_20210703T100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10030T_20210703T100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10030T_20210703T100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10030T_20210703T100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10030T_20210703T100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10030T_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T1004752_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10246_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10246_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10246_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T10246_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T1100475_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T1100475_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T1100475_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T1100475_20210703T1100415_C001  CS_OFFL_SIR_IOPM_2_20210703T110045_C0010041100415_C001  CS_OFFL_SIR_IOPM_2_20210703T110045_C0010041100415_C001  CS_OFFL_SIR_IOPM_2_20210703T110045_C0010041110045_C001  CS_OFFL_SIR_IOPM_2_20210703T110045_C001004110045_C001  CS_OFFL_SIR_IOPM_2_20210703T110045_C001004110045_C0	CS_OFFL_SIR_IOPM_2_20210703T094306_20210703T094842_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20210703T100040_20210703T102437_C001  CS_OFFL_SIR_JOPM_2_20210703T102218_20210703T102437_C001  CS_OFFL_SIR_JOPM_2_20210703T102208_20210703T102437_C001  CS_OFFL_SIR_JOPM_2_20210703T103208_20210703T102437_C001  CS_OFFL_SIR_JOPM_2_20210703T103208_20210703T103217_C001  CS_OFFL_SIR_JOPM_2_20210703T103208_20210703T103217_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T103217_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T103217_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T113218_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T113218_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T113218_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T113218_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T113218_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CCS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CCS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10321_C001  CCS_OFFL_SIR_JOPM_2_20210703T103037_20210703T10322_C001  CCS_OFFL_SIR_JOPM_2_20210703T103037_202100300000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20210703T095009_20210703T095826_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20210703T103208_20210703T103817_C001  CS_OFFL_SIR_IOPM_2_20210703T103208_20210703T104613_C001  CS_OFFL_SIR_IOPM_2_20210703T103937_20210703T104613_C001  CS_OFFL_SIR_IOPM_2_20210703T103937_20210703T104613_C001  CS_OFFL_SIR_IOPM_2_20210703T104752_20210703T104613_C001  CS_OFFL_SIR_IOPM_2_20210703T104752_20210703T104613_C001  CS_OFFL_SIR_IOPM_2_20210703T104752_20210703T112818_C001  CS_OFFL_SIR_IOPM_2_20210703T112846_20210703T112818_C001  CS_OFFL_SIR_IOPM_2_20210703T112846_20210703T112818_C001  CS_OFFL_SIR_IOPM_2_20210703T11316_20210703T113628_C001  CS_OFFL_SIR_IOPM_2_20210703T11316_20210703T113628_C001  CS_OFFL_SIR_IOPM_2_20210703T11316_20210703T113628_C001  CS_OFFL_SIR_IOPM_2_20210703T11316_20210703T11364_C001  CS_OFFL_SIR_IOPM_2_20210703T113162_20210703T11364_C001  CCS_OFFL_SIR_IOPM_2_20210703T11316_20210703T113546_C001  CCS_OFFL_SIR_IOPM_2_20210703T113162_20210703T113546_C001  CCS_OFFL_SIR_IOPM_2_20210703T113162_20210703T113546_C001  CCS_OFFL_SIR_IOPM_2_20210703T13162_20210703T113546_C001  CCS_OFFL_SIR_IOPM_2_20210703T13162_20210703T13546_C001  CCS_OFFL_SIR_IOPM_2_20210703T13162_20210703T13546_C001  CCS_OFFL_SI	CS_OFFL_SIR_IOPM_2_20210703T100040_20210703T101545_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCCG Affirmeter Range and Backscatter Quality CoCG Affirmeter Range and Backscatter Quality Flags have been Affirmeter Range and Backscatter Quality CoCG Cosan Affirmeter Range, SSHA, SWH and Backscatter Quality, OCCG Affirmeter Range, SSHA	CS_OFFL_SIR_IOPM_2_20210703T102218_20210703T102437_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags And the OCOG Altimeter Range and Backscatter Quality Flags And the OCOG Altimeter Range and Backscatter Quality Flags And the OCOG Altimeter Range and Backscatter Quality Flags And the OCOG Altimeter Range and Backscatter Quality Flags And the OCOG Altimeter Range and Backscatter Quality Flags And the OCOG Altimeter Range and Backscatter Quality Flags And	CS_OFFL_SIR_IOPM_2_20210703T103208_20210703T103817_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210703T112546_20210703T112818_C001  CS_OFFL_SIR_IOPM_2_20210703T112546_20210703T112818_C001  CS_OFFL_SIR_IOPM_2_20210703T112546_20210703T113154_C001  CS_OFFL_SIR_IOPM_2_20210703T113162_20210703T113154_C001  CS_OFFL_SIR_IOPM_2_20210703T11316_20210703T113528_C001  CS_OFFL_SIR_IOPM_2_20210703T11316_20210703T113528_C001  CS_OFFL_SIR_IOPM_2_20210703T11316_20210703T112626_C001  CS_OFFL_SIR_IOPM_2_20210703T113154_20210703T113546_C001  CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CCGG Altimeter Range Guality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CCGG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCGG Altimeter Range Guality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCGG Altimeter Range Guality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCGG Altimeter Range Guality, OCOG Altimeter Range and Backscatter	CS_OFFL_SIR_IOPM_2_20210703T103937_20210703T104613_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210703T112925_20210703T113154_C001  CS_OFFL_SIR_IOPM_2_20210703T113316_20210703T113628_C001  CS_OFFL_SIR_IOPM_2_20210703T113316_20210703T115626_C001  CS_OFFL_SIR_IOPM_2_20210703T114138_20210703T115626_C001  CS_OFFL_SIR_IOPM_2_20210703T114138_20210703T115626_C001  CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120041_C001  CS_OFFL_SIR_IOPM_2_20210703T12133_20210703T120341_C001  CS_OFFL_SIR_IOPM_2_20210703T12133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T12133_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131163_20210703T133546_C001  CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210703T13163_20210703T134645_C001  CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCOG Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20210703T104752_20210703T110321_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 Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210703T113316_20210703T113628_C001  CS_OFFL_SIR_IOPM_2_20210703T114138_20210703T115626_C001  CS_OFFL_SIR_IOPM_2_20210703T114138_20210703T115626_C001  CS_OFFL_SIR_IOPM_2_20210703T1120008_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CCC_OFFL_SIR_IOPM_2_20210703T131153_20210703T134645_C001  CCC_OFFL_SIR_IOPM_2_20210703T131153_20210703T134645_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T134645_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T134645_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T134645_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T135525_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T135525_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T135525_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T135525_C001  CCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T135525_C001  CCCC_OFFL_SIR_IOPM_2_20210703T13515_20210703T135525_C001  CCCC_OFFL_SIR_IOPM_2_20210703T13515_	CS_OFFL_SIR_IOPM_2_20210703T112546_20210703T112818_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_20210703T114138_20210703T115626_C001  CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T13153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T13153_20210703T134645_C001  CS_OFFL_SIR_IOPM_2_20210703T135115_20210703T135355_C001  And Backscatter Quality and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210703T112925_20210703T113154_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, Plags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120841_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T134205_20210703T134645_C001  CS_OFFL_SIR_IOPM_2_20210703T134205_20210703T134645_C001  CS_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001  CS_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001  CCS_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001  CCS_OFFL_S	CS_OFFL_SIR_IOPM_2_20210703T113316_20210703T113628_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Cs_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  Cs_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  Cs_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  Cs_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  Cs_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  Cs_OFFL_SIR_IOPM_2_20210703T134205_20210703T134645_C001  Cs_OFFL_SIR_IOPM_2_20210703T134205_20210703T134645_C001  Cs_OFFL_SIR_IOPM_2_20210703T134205_20210703T135325_C001  Backscatter Quality  for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_IOPM_2_20210703T134205_20210703T134645_C001  Cs_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocog Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210703T114138_20210703T115626_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20210703T134205_20210703T134645_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20210703T120008_20210703T120841_C001		
CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG	CS_OFFL_SIR_IOPM_2_20210703T121133_20210703T123341_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality    CS_OFFL_SIR_IOPM_2_20210703T134205_20210703T134645_C001     Backscatter Quality   for one or more records.     CS_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001     CS_OFFL_SIR_IOPM_2_20210703T135115_2	CS_OFFL_SIR_IOPM_2_20210703T131153_20210703T133546_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20210703T134205_20210703T134645_C001		
	CS_OFFL_SIR_IOPM_2_20210703T135115_20210703T135325_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20210703T135509_20210703T141609_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_20210703T144829_20210703T151416_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_20210703T152124_20210703T152719_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_20210703T152937_20210703T154814_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_20210703T155048_20210703T155752_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_20210703T160610_20210703T160720_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_20210703T161955_20210703T165328_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_20210703T170032_20210703T170551_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_20210703T170912_20210703T171030_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_20210703T171229_20210703T171407_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_20210703T174326_20210703T174716_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_20210703T175806_20210703T180834_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_20210703T181120_20210703T183245_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_20210703T183921_20210703T184035_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_20210703T184914_20210703T185954_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_20210703T190142_20210703T190754_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_20210703T190838_20210703T190851_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_20210703T190934_20210703T191416_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_20210703T193614_20210703T201128_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_20210703T201424_20210703T201937_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_20210703T201954_20210703T202249_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_20210703T203035_20210703T210108_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_20210703T211442_20210703T212414_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_20210703T212418_20210703T213456_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_20210703T213556_20210703T215059_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_20210703T215328_20210703T215833_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_20210703T220805_20210703T221811_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_20210703T222430_20210703T223709_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_20210703T225334_20210703T231122_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_20210703T231136_20210703T231419_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_20210703T231558_20210703T233009_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_20210703T233245_20210703T233745_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_20210703T234544_20210704T000808_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_20210703T050050_20210703T050115_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_20210703T093601_20210703T093639_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_20210703T220038_20210703T220252_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_20210703T011519_20210703T012349_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210703T044933_20210703T045006_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210703T045215_20210703T045255_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210703T074942_20210703T075604_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_20210703T080234_20210703T080430_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_20210703T174716_20210703T175623_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_20210703T215834_20210703T215840_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210703T225032_20210703T225334_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_20210703T002137_20210703T002352_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_20210703T003021_20210703T003338_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_20210703T010924_20210703T011046_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_20210703T011130_20210703T011519_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_20210703T024606_20210703T025213_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_20210703T034647_20210703T034651_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_20210703T035023_20210703T035141_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_20210703T042809_20210703T042936_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_20210703T043012_20210703T043145_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_20210703T052715_20210703T053024_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_20210703T062327_20210703T062443_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_20210703T063604_20210703T063927_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_20210703T084053_20210703T084328_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_20210703T084522_20210703T084833_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_20210703T094041_20210703T094253_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_20210703T101619_20210703T102218_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_20210703T102933_20210703T103111_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_20210703T111025_20210703T111117_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_20210703T111527_20210703T111739_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_20210703T111911_20210703T112132_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_20210703T112325_20210703T112444_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_20210703T115821_20210703T120008_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_20210703T120841_20210703T121037_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_20210703T123522_20210703T123846_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_20210703T125441_20210703T125931_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_20210703T134110_20210703T134205_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_20210703T134645_20210703T134902_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_20210703T141609_20210703T141708_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_20210703T142649_20210703T142750_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_20210703T151728_20210703T151848_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_20210703T151902_20210703T152124_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_20210703T160559_20210703T160610_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_20210703T161651_20210703T161804_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_20210703T161827_20210703T161955_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_20210703T170551_20210703T170706_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_20210703T172451_20210703T172536_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_20210703T172809_20210703T172953_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_20210703T173821_20210703T173904_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_20210703T183601_20210703T183921_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_20210703T184449_20210703T184614_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_20210703T190754_20210703T190837_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_20210703T192507_20210703T192825_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_20210703T201240_20210703T201424_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_20210703T202249_20210703T202431_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_20210703T210119_20210703T210254_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_20210703T221812_20210703T221917_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_20210703T222157_20210703T222218_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_20210703T224022_20210703T224052_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_20210703T224100_20210703T224323_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_20210703T233806_20210703T233810_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_20210702T235927_20210703T000000_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_20210703T002013_20210703T002137_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_20210703T011519_20210703T012349_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_20210703T021233_20210703T021446_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_20210703T025213_20210703T025956_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_20210703T025959_20210703T030113_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_20210703T035141_20210703T035445_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.

Dept After Graph (200)   Dept After Graph (2	CS_OFFL_SIR_IOPR_2_20210703T043145_20210703T043638_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.
Compared	CS_OFFL_SIR_IOPR_2_20210703T043638_20210703T044110_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SO OFF, SIR OFF 2 2011731TTC-FEE 2012731TC-FEE CO.  SIR OFF, SIR OFF 2 2011731TTC-FEE CO.  SIR OFF, SIR OFF 2 2011731TC-FEE CO.  SIR OFF, S	CS_OFFL_SIR_IOPR_2_20210703T044322_20210703T044418_C001	1	
Design Agriculture County PERSON COUNTY COUN	CS_OFFL_SIR_IOPR_2_20210703T051808_20210703T052026_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SE_OFT_SIR_OPR_2_22*********************************	CS_OFFL_SIR_IOPR_2_20210703T053024_20210703T053404_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Se OPH_SIR_IOPE_2_202*0767109503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*0767109503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*0767109503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*0767109503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*0767109503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*0767109503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*076710*0503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*076710*0503_2251076710*06_C01  CS_OPH_SIR_IOPE_2_202*076710*0503_22510*076710*06_C01  CS_OPH_SIR_IOPE_2_202*076710*0503_20510*076710*06_C01  CS_OPH_SIR_IOPE_2_202*076710*06_005000*076710*06_C01  CS_OPH_SIR_IOPE_2_202*076710*06_00	CS_OFFL_SIR_IOPR_2_20210703T060852_20210703T061706_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
29_OFTL_SR_UOR_2_202**0700T05953_202**0700T0509_0001  C2_OFTL_SR_UOR_2_202**0700T05953_202**0700T0509_0001  C3_OFTL_SR_UOR_2_202**0700T05953_202**0700T0509_0001  C3_OFTL_SR_UOR_2_202**0700T05953_202**0700T0509_0001  C3_OFTL_SR_UOR_2_202**0700T05953_202**0700T0509_0001  C3_OFTL_SR_UOR_2_202**0700T05953_202**0700T0509_0001  C3_OFTL_SR_UOR_2_202**0700T05953_202**0700T0509_0001  C3_OFTL_SR_UOR_2_202**0700T05954_2001  C3_OFTL_SR_UOR_2_2000**0700T05954_2001  C3_OFTL_SR_UOR_2_2000**0700T05954_2001  C3_OFTL_SR_UOR_2_2000**0700T	CS_OFFL_SIR_IOPR_2_20210703T061706_20210703T061839_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Busisoutar Outly FLAN, COCO Alternative Roady SPN, SVY and Busisoutar Outly Flags have been affected and the Secretary County of the Secretary County of Secretary	CS_OFFL_SIR_IOPR_2_20210703T061915_20210703T061922_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Baccaster Custly PLRM, COOD  CS_OFFL_SIR_JOPR_2_202107031076942_202107031075904_COOT  CS_OFFL_SIR_JOPR_2_202107031076942_202107031075904_COOT  CS_OFFL_SIR_JOPR_2_202107031076942_202107031075904_COOT  CS_OFFL_SIR_JOPR_2_202107031076942_202107031076904_COOT  CS_OFFL_SIR_JOPR_2_202107031076942_202107031091040_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_2021070310910905_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031091090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_20210703109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_202107031109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_202107031109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_202107031109095_202107031109090_COOT  CS_OFFL_SIR_JOPR_2_20210703110909_COOT  CS_OFFL_SIR_	CS_OFFL_SIR_IOPR_2_20210703T065633_20210703T070009_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and deaccastate Quality PLRN, QCOC All Trainer Range and Sackscater Quality PLRN, QCOC All Trainer Range SSHA, SWH and Sackscater Quality PLRN, QCOC All Trainer Range SSHA, SWH and Sackscater Quality PLRN, QCOC All Trainer Range SSHA, SWH and Sackscater Quality PLRN, QCOC All Trainer Range and Sackscater Quality PLRN, QCOC All Trainer Range SSHA, SWH and Sackscater Quality PLRN, QCOC All	CS_OFFL_SIR_IOPR_2_20210703T070944_20210703T071322_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPR_2_20210703T050325_20210703T06045_0001   CS_OFFL_SIR_JOPR_2_20210703T06025_20210703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06025_20210703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06025_20210703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06025_20210703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06035_20210703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06035_20010703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06035_20010703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06035_20010703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06050_20010703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T06050_20010703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T06050_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_20010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_00010703T10550_0001   CS_OFFL_SIR_JOPR_2_20210703T10550_00010703T105	CS_OFFL_SIR_IOPR_2_20210703T074942_20210703T075604_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T1080395_20210703T081056_C001  and Backscatter Quality PLRM. COCG Altimeter Range SIAL SWH and Backscatter Quality PLRM. COCG Altimeter Range Quality PLRM. COCG Altimeter Range and Backscatter Quality Plags have been set for one or noor records.  CS_OFFL_SIR_IOPR_2_20210703T112505_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T12505_20210703T12545_C001  CS_OFFL_SIR_IOPR_2_20210703T12505_20210703T12545_C001  CS_OFFL_SIR_IOPR_2_20210703T12505_20210703T12545_C001  CS_OFFL_SIR_IOPR_2_20210703T12505_20210703T12566_C001  CS_OFFL_SIR_IOPR_2_20210703T12505_C001  CS_OFFL_SIR_IOPR_2_20210703	CS_OFFL_SIR_IOPR_2_20210703T075741_20210703T080142_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T082834_20210703T094903_C001  Almeter Range and Backscatter Quality PLRM, COCG Almeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T092838_20210703T093490_C001  CS_OFFL_SIR_IOPR_2_20210703T092838_20210703T09039_C001  CS_OFFL_SIR_IOPR_2_20210703T092838_20210703T100039_C001  CS_OFFL_SIR_IOPR_2_20210703T095826_20210703T100039_C001  CS_OFFL_SIR_IOPR_2_20210703T101545_20210703T100039_C001  CS_OFFL_SIR_IOPR_2_20210703T101545_20210703T101619_C001  Almeter Range and Backscatter Quality PLRM, COCG Almeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T101645_20210703T101619_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104792_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T10422_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T10422_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T110332_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T1120342_20210703T1123522_C001  CS_OFFL_SIR_IOPR_2_20210703T1120342_20210703T1123522_C001  CS_OFFL_SIR_IOPR_2_20210703T1123442_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T124806_C001  CS_OFFL_SIR	CS_OFFL_SIR_IOPR_2_20210703T080925_20210703T081056_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SOFFL SIR IOPR 2 20210703T093826_20210703T10039_C001  Allimeter Range Quality PLRM. OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12546_C001  CS_OFFL_SIR_IOPR_2_20210703T12346_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T1234606_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T1234606_20210703T12546_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12546_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12546_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12546_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12546_C001  CS_OFFL_SIR_IOPR_2_20	CS_OFFL_SIR_IOPR_2_20210703T083354_20210703T084053_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality  CS_OFFL_SIR_IOPR_2_20210703T101545_20210703T101619_C001  CS_OFFL_SIR_IOPR_2_20210703T101545_20210703T101619_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T12103T_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T12103T_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T1203T_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T1203T_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12552_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125541_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125411_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125411_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125411_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125411_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125522_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125522_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125522_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125522_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125522_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_202107	CS_OFFL_SIR_IOPR_2_20210703T092838_20210703T093450_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T1104752_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T1104752_C001  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T1104752_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T1213522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T125522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T12544	CS_OFFL_SIR_IOPR_2_20210703T095826_20210703T100039_C001		
and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125	CS_OFFL_SIR_IOPR_2_20210703T101545_20210703T101619_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  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.  CC_OCOM Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CC_OCOM Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CC_OCOM Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CC_OCOM Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CC_OCOM Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_IOPR_2_20210703T104613_20210703T104752_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C0	CS_OFFL_SIR_IOPR_2_20210703T110333_20210703T110422_C001		
CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T12132_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  And Backscatter Quality PLRM, 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.  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  And Backscatter Quality PLRM, 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.  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  And Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T133546_20210703T133556_2001  CS_OFFL_SIR_IOPR_2_20210703T133546_20210703T133556_2001  Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210703T133546_20210703T125441_C001	CS_OFFL_SIR_IOPR_2_20210703T112506_20210703T112545_C001		
CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T124806_C001  CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  CS_OFFL_SIR_IOPR_2_20210703	CS_OFFL_SIR_IOPR_2_20210703T121037_20210703T121132_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T124806_C001  OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG 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.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality Flags have been and Backscatter Quality Flags	CS_OFFL_SIR_IOPR_2_20210703T123342_20210703T123522_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quali	CS_OFFL_SIR_IOPR_2_20210703T124717_20210703T124806_C001		
and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_IOPR_2_20210703T124806_20210703T125441_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
PLRM set for one or more records.	CS_OFFL_SIR_IOPR_2_20210703T133546_20210703T133756_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210703T134902_20210703T135115_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 been set for one or more records.	CS_OFFL_SIR_IOPR_2_20210703T134902_20210703T135115_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPR_2_20210703T142536_20210703T142648_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_20210703T151416_20210703T151728_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_20210703T160315_20210703T160446_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_20210703T160854_20210703T161651_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_20210703T165328_20210703T165720_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_20210703T170707_20210703T170912_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_20210703T173450_20210703T173821_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_20210703T174033_20210703T174158_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_20210703T175752_20210703T175806_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_20210703T183245_20210703T183601_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_20210703T184614_20210703T184914_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_20210703T192825_20210703T193512_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_20210703T193512_20210703T193614_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_20210703T201128_20210703T201240_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_20210703T202431_20210703T203034_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_20210703T210724_20210703T211305_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_20210703T220252_20210703T220805_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_20210703T222218_20210703T222430_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_20210703T223709_20210703T223742_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_20210703T225032_20210703T225334_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (1 Hz & 1Hz PLRM)

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

> 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: 202

## 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:

61

## 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.

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

#### **6.1 P2P Product Format Check**

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

Number of products with errors:

#### **6.2 P2P Product Header Analysis**

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## **6.4 P2P Auxiliary Correction Error Check**

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric 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.

28

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210703T002840_20210703T011815_C001	Mean Sea Surface (1), Mean 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_220210703T011815_20210703T020755_C001	Mean Sea Surface (1), Mean 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_220210703T020755_20210703T025730_C001		Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more
CS_OFFL_SIR_IOP_220210703T025730_20210703T034709_C001	Mean Sea Surface (1), Mean 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_220210703T043644_20210703T052624_C001	Mean Sea Surface (1), Mean 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_220210703T052624_20210703T061559_C001	Mean Sea Surface (1), Mean 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_220210703T061559_20210703T070539_C001	Mean Sea Surface (1), Mean 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_220210703T070539_20210703T075514_C001	Mean Sea Surface (1), Mean 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_220210703T075514_20210703T084453_C001	Mean Sea Surface (1), Mean 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_220210703T084453_20210703T093428_C001	Mean Sea Surface (1), Mean 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_220210703T093428_20210703T102408_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_220210703T102408_20210703T111343_C001	Mean Sea Surface (1), Mean 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_220210703T111343_20210703T120322_C001	Mean Sea Surface (1), Mean 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_220210703T120322_20210703T125258_C001	Mean Sea Surface (1), Mean 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_220210703T125258_20210703T134237_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) 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_220210703T134237_20210703T143212_C001	Mean Sea Surface (1), Mean 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_220210703T143212_20210703T152152_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_220210703T152152_20210703T161127_C001	Mean Sea Surface (1), Mean 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_220210703T161127_20210703T170107_C001	Mean Sea Surface (1), Mean 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_220210703T170107_20210703T175042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

	Maan Caa Curfage (1) Maan Dynamie	There is an error with the MCC height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOP_220210703T175042_20210703T184021_C001	Mean Sea Surface (1), Mean 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_220210703T184021_20210703T192956_C001	Iviean Sea Surrace (1), iviean Dynamic Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic
00_0112_011(_101_2202107001101021_202107001102000_0001	Tide (GOT), Total Geocentric Ocean  Tide (FFS) Non-Fauilibrium Long Period	Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220210703T192956_20210703T201936_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
		Topography height (Solution 1)
CS_OFFL_SIR_IOP_220210703T201936_20210703T210911_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
C3_OFFL_3IK_IOF_2202107031201930_202107031210911_C001	Topography (1)	Topography height (solution 1)
	Iviean Sea Surrace (1), Iviean Dynamic	I nere is an error with the ivibb neight (solution 1), the iviean Dynamic
CS_OFFL_SIR_IOP_220210703T210911_20210703T215850_C001		Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more
		records
CS_OFFL_SIR_IOP_220210703T215850_20210703T224826_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
00_0112_011(_101202101001210000_202101001221020_0001	Topography (1)	Topography height (solution 1)
CS OFFI SID IOD 2 20240702T224026 20240702T222005 C004	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOP_220210703T224826_20210703T233805_C001	Topography (1)	Topography height (solution 1)
00 0551 010 100 0 000407007000005 00040704700740 0000	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOP_220210703T233805_20210704T002740_C002	Topography (1)	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_220210703T170107_20210703T175042_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220210703T210911_20210703T215850_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: 28

## P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 29

## 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20Hz)

Cryosat P2P data includes an ocean retracking quality 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: 28

#### P2P Retracking Flags PLRM

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

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

Number of products with errors: 29

## 7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	160	160	5	155	0
SIR_IOPR1B	129	109	0	109	0
SIR_IOPN1B	109	129	0	129	0
SIR_IOPM_2	160	160	101	59	0
SIR_IOPR_2	129	109	42	67	0
SIR_IOPN_2	109	129	47	81	1
SIR_IOP_P2P	28	28	0	28	0

## 7.1 QCC Errors

Number of QCC reports with errors:

4

Product Type R	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	1	1	1	1							
Product Type	-	-	-	-	-	-	-	-	-	-	-
0											

Test Description Key:					
Abbreviation	Test name	Details			
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7			

RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7

# 7.2 QCC Warnings

<b>Number of QCC reports with warnings</b>	<b>Number</b>	of	QCC r	eports	with	warnings
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2280

Total numbe	r of occurrences	of each warning	1
i Otal Hullibe	i di decuirences	OI Cacii Waiiiiig	4

					3		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_IOPM1B	155	0	0	0	0	0	0
SIR_IOPM_2	0	0	43	42	1	43	0
SIR_IOPN1B	107	0	0	0	0	0	0
SIR_IOPN_2	0	0	13	34	4	28	28
SIR_IOPR1B	122	0	0	0	0	0	0
SIR_IOPR_2	0	1	38	44	1	43	36

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNC	DIRPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	35	1	35	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	23	0	0	0	25	0	32
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	22	0	0	50	0	56	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	24	0	0	12	28	0	8
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	30	20	45	55	30
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	47	0	3	65	39	8

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	40	0	4	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	47	2
SIR_IOPN_2	30	28	14	0	2	0	0
SIR_IOPR1B	0	0	0	1	0	129	4
SIR_IOPR_2	37	52	2	0	5	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	16	28	28	7	28	18	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	1	19	28	26	20	28	19
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_IOP_2_	23	28	19		28		

Test Description Key:		
	Test name	Details
	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
DOC!    (OD!		
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
CDF RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0