

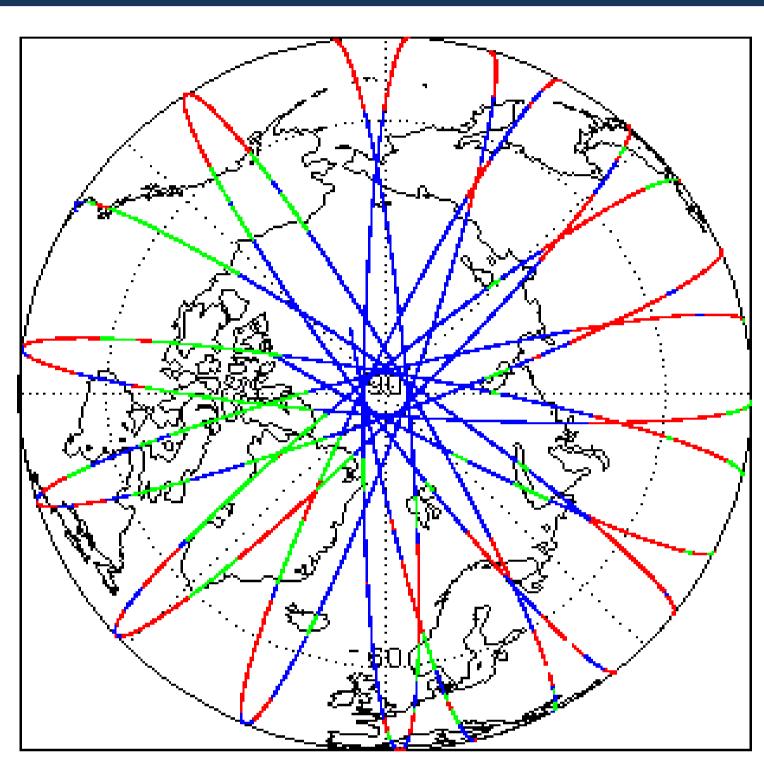
1. Overview

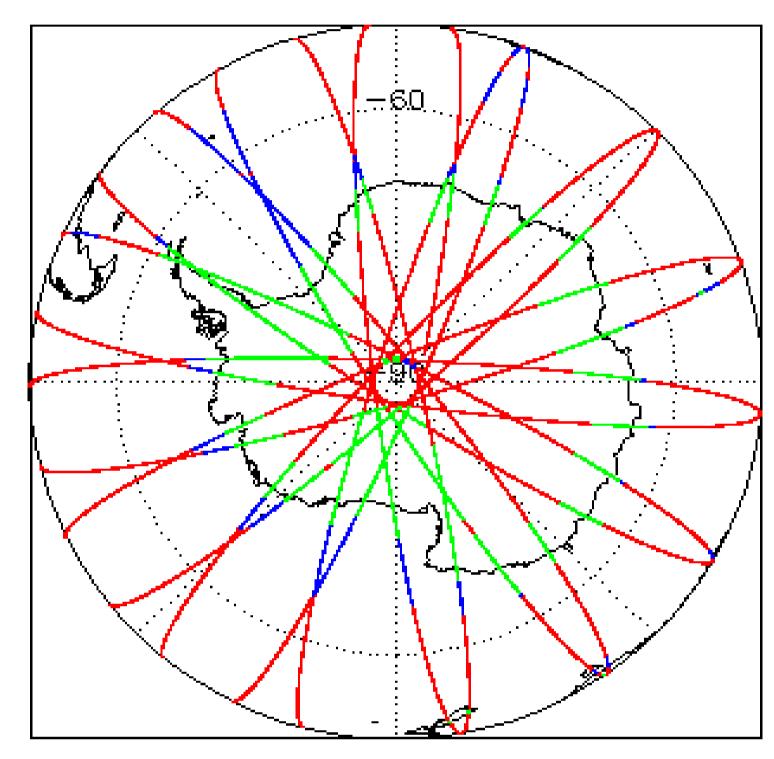
Report Production:	03-Mar-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

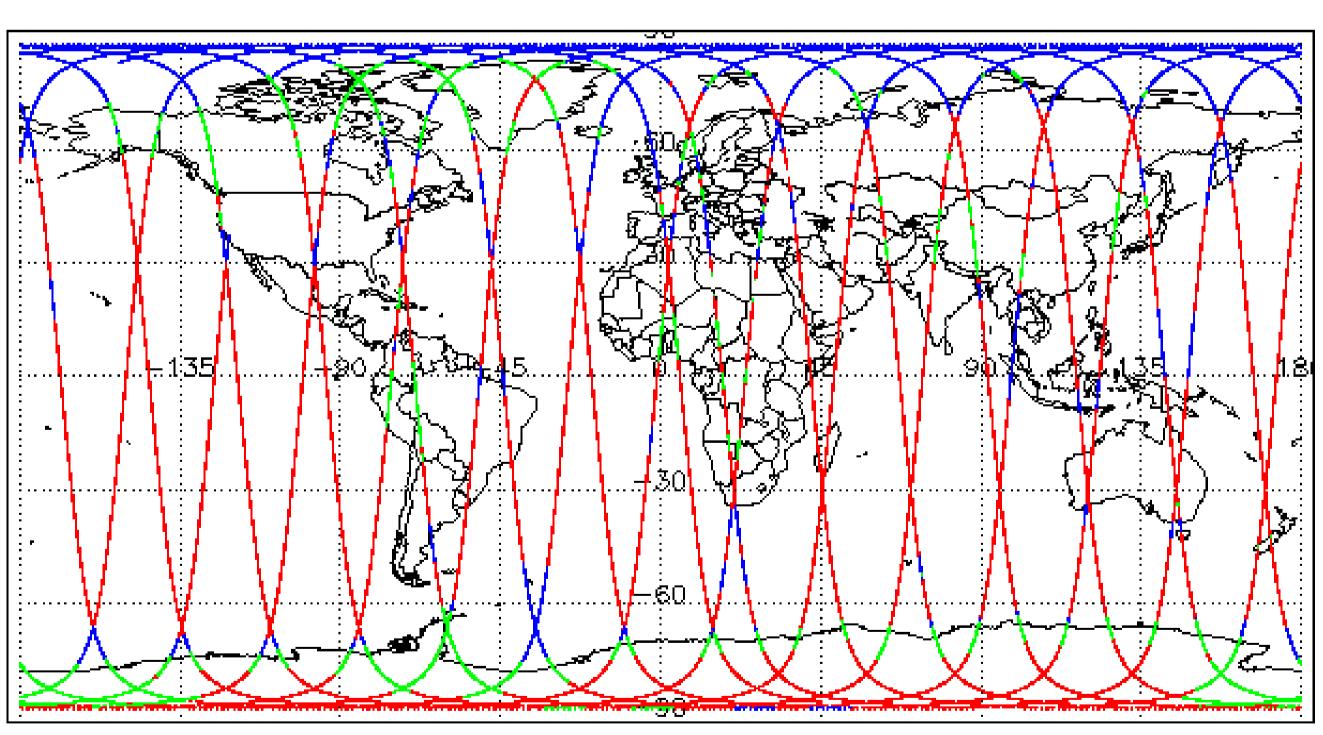
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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 7.1, 7.2

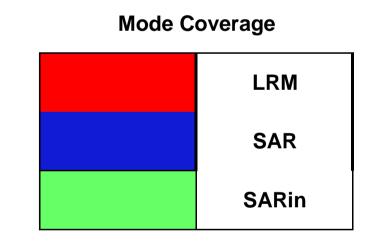
Missi	on / Instru	ment News
27-F	eb-2021	None
28-F	eb-2021	None
01-N	Mar-2021	Nothing planned

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:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210228T025514_20210228T030329_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:

17

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210228T002830_20210228T003409_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210228T132622_20210228T135222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210228T174053_20210228T174330_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T022516_20210228T022633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T040013_20210228T040403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T040413_20210228T040546_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T045832_20210228T050447_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T054121_20210228T054436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T085331_20210228T085953_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T123056_20210228T123225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T154340_20210228T154500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T154811_20210228T155034_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T190217_20210228T190707_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T195426_20210228T195641_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210228T203426_20210228T203536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210228T053703_20210228T053925_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210228T121445_20210228T122445_C001	Loss of Echo	The tracking echo is missing for one or more records

5. OP 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:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210228T092041_20210228T092638_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_20210228T190707_20210228T190743_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPM_2_20210228T221252_20210228T221443_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_20210228T004615_20210228T004706_C001	Mean Sea Surface (1), Mean 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_20210228T014300_20210228T014407_C001	Mean Sea Surface (1), Mean 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_20210228T022516_20210228T022633_C001	Mean Sea Surface (1), Mean 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_20210228T040013_20210228T040403_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_20210228T040413_20210228T040546_C001	Mean Sea Surface (1), Mean 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_20210228T045832_20210228T050447_C001	Mean Sea Surface (1), Mean 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_20210228T054121_20210228T054436_C001	Mean Sea Surface (1), Mean 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_20210228T063753_20210228T064113_C001	Mean Sea Surface (1), Mean 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_20210228T071910_20210228T072259_C001	Mean Sea Surface (1), Mean 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_20210228T085331_20210228T085953_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_IOPN_2_20210228T095800_20210228T095919_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_20210228T105632_20210228T105700_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_20210228T112801_20210228T112929_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_20210228T113453_20210228T113802_C001	Mean Sea Surface (1), Mean 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_20210228T123056_20210228T123225_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_20210228T130743_20210228T130858_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_20210228T131352_20210228T131718_C001	Mean Sea Surface (1), Mean 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_20210228T154340_20210228T154500_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_20210228T162352_20210228T162956_C001	Mean Sea Surface (1), Mean 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_20210228T172702_20210228T172915_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_20210228T180558_20210228T180747_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_20210228T181617_20210228T181808_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_20210228T190217_20210228T190707_C001	Mean Sea Surface (1), Mean 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_20210228T212644_20210228T212901_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

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Topography (1) Topography (2 20210228T140344_20210228T140917_C001 CS_OFFL_SIR_JOPR_2_20210228T140344_20210228T15428_C001 CS_OFFL_SIR_JOPR_2_20210228T156052_20210228T15428_C001 CS_OFFL_SIR_JOPR_2_20210228T156052_20210228T15428_C001 CS_OFFL_SIR_JOPR_2_20210228T160602_20210228T154340 C001 CS_OFFL_SIR_JOPR_2_20210228T160602_20210228T160615_C001 CS_OFFL_SIR_JOPR_2_20210228T160602_20210228T160615_C001 CS_OFFL_SIR_JOPR_2_20210228T17610_20210228T17010_C001 CS_OFFL_SIR_JOPR_2_20210228T171610_20210228T172018_C001 CS_OFFL_SIR_JOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_JOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_JOPR_2_20210228T177328E_20210228T173334_C001 CS_OFFL_SIR_JOPR_2_20210228T17328E_20210228T173334_C001 CS_OFFL_SIR_JOPR_2_20210228T17328E_20210228T173001_C001 CS_OFFL_SIR_JOPR_2_20210228T17328E_20210228T172001 CS_OFFL_SIR_JOPR_2_20210228T17328E_20210228T173001_C001 CS_OFFL_SIR_JOPR_2_20210228T17328E_20210228T173001_C001 CS_OFFL_SIR_JOPR_2_20210228T17328E_20210228T173001_C001 CS_OFFL_SIR_JOPR_2_20210228T17328E_20210228T172001 CS_OFFL_SIR_JOPR_2_20210228T10228E_20210228T173001_C001 CS_OFFL_SIR_JOPR_2_20210228T203738_20210228T20731_C001 Mean Sas Surface (1), Mean Dynamic Topography (a), Total Geocentic Coesan Tide (COT), Total Geocentic Coesan Tide (COT)	CS_OFFL_SIR_IOPR_2_20210228T122445_20210228T122615_C001		
Topography (1) Topography (1) Topography (2) Topography height (solution 1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (501 to 1), the Total Geocentric Ocean Tide (501) and Geo	CS_OFFL_SIR_IOPR_2_20210228T135715_20210228T140344_C001	· · ·	
Topography (1) CS_OFFL_SIR_IOPR_2_20210228T154229_20210228T154340_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (2), Total Geocentric Ocean Tide (GOT) Mean Lynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Lynamic Topography (1), Total Geocentric Ocean Tide (GOT),	CS_OFFL_SIR_IOPR_2_20210228T140344_20210228T140917_C001		
Topography (1) Topography (1) Topography height (solution 1) Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20210228T153625_20210228T154228_C001		
CS_OFFL_SIR_IOPR_2_20210228T160602_20210228T17701_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17701_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17701_C001 CS_OFFL_SIR_IOPR_2_20210228T171644_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 CS_OFFL_SIR_IOPR_2_20210228T173226_20210228T173334_C001 CS_OFFL_SIR_IOPR_2_20210228T173226_20210228T173334_C001 CS_OFFL_SIR_IOPR_2_20210228T173226_20210228T17001 CS_OFFL_SIR_IOPR_2_20210228T173226_20210228T17001 CS_OFFL_SIR_IOPR_2_20210228T173226_20210228T17001 CS_OFFL_SIR_IOPR_2_20210228T170012 CS_OFFL_SIR_IOPR_2_20210228T170012 CS_OFFL_SIR_IOPR_2_20210228T203728_20210228T17001 CS_OFFL_SIR_IOPR_2_20210228T203728_20210228T20731_C001 Mean Sea Surface (1), Mean Dynamic Topography (a) the Mean Dynamic Topography (bight (solution 1) and the M	CS_OFFL_SIR_IOPR_2_20210228T154229_20210228T154340_C001		
Geocentric Ocean Tide (GET), Total Geocentric Ocean Tide (SOT), Total Geocentric Ocean Tide (SOT), Total Geocentric Ocean Tide (Solution 1: GET) and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GET) and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GET) and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GET) and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1: GET) and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20210228T185655_20210228T190217_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20210228T203728_20210228T204241_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the Mean Dynamic Topography height (solution 1) There is an error with the Mean Dynamic Topography height (solution 1) There is an error with the Mean Dynamic Topography height (solution 1) There is an error with the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20210228T160602_20210228T160815_C001	Topography (1), Total Geocentric Ocean Tide (GOT)	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
Topography (1) CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT). There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (sOID). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error with the Mean Dynamic Topography height (solution 1). There is an error wi	CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T171701_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and
Topography (1) Topography (1) Topography (2) Topography (2) Topography (3) Topography (4) Topography (5) Topography (6) Topography (6) Topography (8) Topography (9) Topography (8) Topography (8) Topography (9) Topography (8) Topography (8)	CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001	· · · ·	
CS_OFFL_SIR_IOPR_2_20210228T173226_20210228T173334_C001 Topography (1), Total Geocentric Ocean Tide (GOT) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (eight (solution 1) and the Mean Dynamic Topography (eight (solution 1)) CS_OFFL_SIR_IOPR_2_20210228T203728_20210228T204241_C001 Mean Sea Surface (1), Mean Dynamic Topography (eight (solution 1)) Mean Dynamic Topography (eight (solution 1)) Mean Dynamic Topography (eight (solution 1)) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the Mean Dynamic Topography height (solution 1) There is an error with the Mean Dynamic Topography height for one or more records Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001		
Topography (1) CS_OFFL_SIR_IOPR_2_20210228T203728_20210228T204241_C001 CS_OFFL_SIR_IOPR_2_20210228T203728_20210228T204241_C001 CS_OFFL_SIR_IOPR_2_20210228T220528_20210228T220731_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_IOPR_2_20210228T221058_20210228T221252_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_IOPR_2_20210228T221058_20210228T221252_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20210228T221632_20210228T222431_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20210228T173226_20210228T173334_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
Topography (1) CS_OFFL_SIR_IOPR_2_20210228T220528_20210228T220731_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_IOPR_2_20210228T221058_20210228T221252_C001 Mean Dynamic Topography (1) Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20210228T185555_20210228T190217_C001		, ,
CS_OFFL_SIR_IOPR_2_20210228T221058_20210228T221252_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20210228T221632_20210228T222431_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20210228T203728_20210228T204241_C001	· · ·	
CS_OFFL_SIR_IOPR_2_20210228T221058_20210228T221252_C001 Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20210228T221632_20210228T222431_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20210228T220528_20210228T220731_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPR_2_20210228T221632_20210228T2243T_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20210228T221058_20210228T221252_C001	Mean Dynamic Topography (1)	
CS OFFL SIK JOPK 2 202102281235458 202103011000354 C001	CS_OFFL_SIR_IOPR_2_20210228T221632_20210228T222431_C001		
	CS_OFFL_SIR_IOPR_2_20210228T235458_20210301T000354_C001		

5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210228T025514_20210228T030329_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210227T235839_20210228T000351_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_20210228T000533_20210228T002519_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_20210228T005727_20210228T012553_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_20210228T012604_20210228T013124_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_20210228T013636_20210228T013839_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_20210228T013846_20210228T014300_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_20210228T014458_20210228T021228_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_20210228T021358_20210228T022105_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_20210228T023850_20210228T023927_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_20210228T024019_20210228T024814_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_20210228T025254_20210228T025429_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_20210228T025431_20210228T025509_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_20210228T025514_20210228T030329_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_20210228T030430_20210228T031045_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_20210228T031758_20210228T032007_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_20210228T032851_20210228T034115_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_20210228T034300_20210228T035144_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_20210228T035311_20210228T035513_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_20210228T035714_20210228T035951_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_20210228T042245_20210228T043149_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_20210228T043417_20210228T044130_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_20210228T044249_20210228T044946_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_20210228T045715_20210228T045832_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_20210228T050447_20210228T050817_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_20210228T052424_20210228T053058_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_20210228T061249_20210228T062902_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_20210228T063125_20210228T063608_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_20210228T063630_20210228T063753_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_20210228T064155_20210228T070525_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_20210228T070528_20210228T070929_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_20210228T073434_20210228T073813_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_20210228T074215_20210228T080849_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_20210228T081110_20210228T081509_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_20210228T081529_20210228T081854_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_20210228T082114_20210228T084853_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_20210228T085214_20210228T085331_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_20210228T092041_20210228T092638_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_20210228T092641_20210228T094812_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_20210228T094940_20210228T095423_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_20210228T095428_20210228T095800_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_20210228T100033_20210228T103551_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_20210228T104900_20210228T105035_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_20210228T110335_20210228T110828_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_20210228T112436_20210228T112744_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_20210228T112929_20210228T113452_C001	l	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210228T114027_20210228T120300_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_20210228T120546_20210228T121445_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_20210228T122730_20210228T123056_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_20210228T124701_20210228T125151_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_20210228T125339_20210228T130650_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_20210228T130859_20210228T131352_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_20210228T131931_20210228T132613_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_20210228T132622_20210228T135222_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_20210228T135601_20210228T135715_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_20210228T141351_20210228T141702_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_20210228T141832_20210228T144130_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_20210228T145935_20210228T150602_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_20210228T151554_20210228T151721_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_20210228T152202_20210228T152932_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_20210228T153553_20210228T153556_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_20210228T154501_20210228T154810_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_20210228T155034_20210228T155717_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_20210228T155746_20210228T160602_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_20210228T160816_20210228T162314_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_20210228T162956_20210228T163212_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_20210228T163849_20210228T165351_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_20210228T165530_20210228T165734_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_20210228T165803_20210228T171036_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_20210228T174053_20210228T174330_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_20210228T174939_20210228T180514_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_20210228T180747_20210228T181617_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210228T181830_20210228T184120_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_20210228T190707_20210228T190743_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_20210228T191702_20210228T194433_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_20210228T194654_20210228T194848_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_20210228T194941_20210228T195426_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_20210228T195705_20210228T200011_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_20210228T200146_20210228T202337_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_20210228T202451_20210228T202724_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_20210228T205605_20210228T212342_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_20210228T212623_20210228T212644_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210228T212901_20210228T213457_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_20210228T213626_20210228T220438_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_20210228T222739_20210228T230216_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_20210228T230809_20210228T231329_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_20210228T231509_20210228T231818_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_20210228T232006_20210228T232129_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_20210228T235109_20210228T235348_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_20210228T040413_20210228T040546_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210228T081523_20210228T081529_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_20210228T123056_20210228T123225_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210228T154811_20210228T155034_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_20210228T203704_20210228T203728_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210228T023535_20210228T023849_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_20210228T030329_20210228T030430_C001	_	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210228T121445_20210228T122445_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210228T162315_20210228T162352_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_20210228T180514_20210228T180558_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_20210228T195641_20210228T195705_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_20210228T232129_20210228T232408_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_20210228T235349_20210228T235435_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (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.

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Product	Test Failed	Description
CS OFFL SIR JOPN 2 20210228T000351 20210228T000515 C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
US OFFE SIR IOPN / /0/10/28100/5/0 /0/10/28100/830 C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
US OFFI SIR IOPN / /0/10//81004615 /0/10//81004/06 U001	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_202102281013237_202102281013636_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_20210228T022516_20210228T022633_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.
US OFFE SIR IOPN / /U/10//8103/00/ /U/10//8103/150 COUT	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_20210228T040013_20210228T040403_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_20210228T045000_20210228T045144_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_20210228T045832_20210228T050447_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.
US OFFI SIR IOPN / /0/10//81051641 /0/10//8105//43 U001	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_202102281053541_202102281053703_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_20210228T053925_20210228T054000_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_20210228T054121_20210228T054436_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.
U.S OFFI SIR IOPN / /U/10//81060/// /U/10//81060414 U.001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
U.S OFFE SIR IOPN / /U/10//81081509 /U/10//81081513 U001	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_20210228T085331_20210228T085953_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_20210228T103753_20210228T103922_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_202102281105632_202102281105700_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_20210228T105812_20210228T105926_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.
U.S OFFE SIR TOPN / /U/10/28111/801 /U/10/28111/9/9 COUT	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
US OFFE SIR IOPN / /U/10//811/4343 /U/10//811/4/U1 CUUT	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_202102281130743_202102281130858_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_20210228T131352_20210228T131718_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_20210228T145258_20210228T145627_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_20210228T154340_20210228T154500_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_20210228T154811_20210228T155034_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_20210228T162352_20210228T162956_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_20210228T172303_20210228T172516_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_20210228T172702_20210228T172915_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_20210228T174532_20210228T174939_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_20210228T180558_20210228T180747_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_20210228T181617_20210228T181808_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_20210228T184302_20210228T184631_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_20210228T190217_20210228T190707_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_20210228T202724_20210228T202759_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_20210228T212503_20210228T212623_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_20210228T213457_20210228T213625_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_20210228T222605_20210228T222739_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_20210228T230455_20210228T230809_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_20210228T234605_20210228T234644_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_20210228T234942_20210228T235109_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_20210228T003735_20210228T003845_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_20210228T003845_20210228T004328_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_20210228T004706_20210228T005727_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_20210228T014407_20210228T014457_C001	TAITIMETER RANGE AND BACKSCATTER CHAILTY	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210228T023535_20210228T023849_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_20210228T032151_20210228T032510_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_20210228T040546_20210228T041106_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_20210228T043214_20210228T043417_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

COMPLIES JOPP 2.2010031704412, V310031704444, COV. 20 JULI UNI UNIV. 2.2010031704192 2010031704193 COV. 20 JULI UNI UNIV. 2.2010031704193 COV. 20 JULI UNI	CS_OFFL_SIR_IOPR_2_20210228T053703_20210228T053925_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 OFTE 61 IONE 2 SCHWINTENDER AD INSTITUTE AND OFTE AND INSTITUTE AND I	CS_OFFL_SIR_IOPR_2_20210228T054437_20210228T055145_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
See 1999, 300 (1999) 1	CS_OFFL_SIR_IOPR_2_20210228T060519_20210228T061249_C001		
Description of the part of the	CS_OFFL_SIR_IOPR_2_20210228T072259_20210228T072823_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 227 (228*19395 COI 20. 0PFL 5 R 10PR 2 2210227 19393 COI 20.	CS_OFFL_SIR_IOPR_2_20210228T082009_20210228T082114_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DE CHEL SIR COPE 2 2010/22/ST156519 2019/22/ST156519 2019	CS_OFFL_SIR_IOPR_2_20210228T085953_20210228T090850_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
1.00 Delta Sile (Cope 2, 202 to 2020 T10-202 COD)	CS_OFFL_SIR_IOPR_2_20210228T090915_20210228T091143_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
### OBJOCATION FOR COMPANY AND PROCESSORY OF AN INSTRUCTION CONTROL CO	CS_OFFL_SIR_IOPR_2_20210228T095919_20210228T100033_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_IOPR_2_20210228T10505_2010228T10506_C01 CS_OFF_SIR_IOPR_2_20210228T10505_2010228T10506_C01 CS_OFF_SIR_IOPR_2_20210228T10505_2010228T10506_C01 CS_OFF_SIR_IOPR_2_20210228T10505_2010228T10506_C01 CS_OFF_SIR_IOPR_2_20210228T10505_2010228T10506_C01 CS_OFF_SIR_IOPR_2_20210228T12445_2010228T12445_C01 CS_OFF_SIR_IOPR_2_20210228T12445_2010228T12445_C01 CS_OFF_SIR_IOPR_2_20210228T12445_2010228T12455_C01 CS_OFF_SIR_IOPR_2_20210228T12445_2010228T12505_C01 CS_OFF_SIR_IOPR_2_20210228T12445_2010228T12505_C01 CS_OFF_SIR_IOPR_2_20210228T12650_C01 CS_OFF_SIR_IOPR_2_20210228T12650_C01 CS_OFF_SIR_IOPR_2_20210228T12650_C01 CS_OFF_SIR_IOPR_2_20210228T12650_C01 CS_OFF_SIR_IOPR_2_20210228T12650_C01 CS_OFF_SIR_IOPR_2_20210228T13050_C01 CS_OFF	CS_OFFL_SIR_IOPR_2_20210228T103922_20210228T104350_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Resocration Caulty OCOG R	CS_OFFL_SIR_IOPR_2_20210228T104350_20210228T104859_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Baccacetter Quality PLPAN, COCA Affirmer Range and Each Each Each Quality PLPAN CS. OFFL. SIR I/OPR 2 20210228112445. 202102281122445. COCI 1 Sign Special Range County Plant Special Range Special Range and Each Each County Plant Special Range and Each Each Each County Plant Special Range and Each Each Each County Plant Special Range and Each Each Each Each Each Each Each Each	CS_OFFL_SIR_IOPR_2_20210228T105035_20210228T105243_C001		
CS_OFFL_SIR_IOPR_2_20210228T12246_20210228T12245_CO01 Allered Range and Basecaster Quality PLRM. CS_OFFL_SIR_IOPR_2_20210228T12246_20210228T122615_CO01 Allered Range and Basecaster Quality PLRM. CS_OFFL_SIR_IOPR_2_20210228T12246_20210228T122615_CO01 CS_OFFL_SIR_IOPR_2_20210228T138222_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138322_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T138308_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T138335_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T130342_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T130345_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T130325_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T130325_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T103025_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T103025_20210228T130502_CO01 CS_OFFL_SIR_IOPR_2_20210228T103025_20210228T130005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100002_20210228T130005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100002_20210228T130005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100002_20210228T130005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100002_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100002_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100005_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100005_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100005_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100005_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100005_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100005_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_20210228T100005_20210228T100005_CO01 CS_OFFL_SIR_IOPR_2_2021022	CS_OFFL_SIR_IOPR_2_20210228T113803_20210228T114027_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 20210228T122418 20210228T138308 CO01 CS OFFL SIR IOPR 2 20210228T135232 20210228T138508 CO01 CS OFFL SIR IOPR 2 20210228T135232 20210228T138502 CO01 CS OFFL SIR IOPR 2 20210228T135232 20210228T138502 CO01 CS OFFL SIR IOPR 2 20210228T135232 20210228T138502 CO01 CS OFFL SIR IOPR 2 20210228T135235 20210228T140344 CO01 CS OFFL SIR IOPR 2 20210228T135232 20210228T153232 CO01 CS OFFL SIR IOPR 2 20210228T153232 20210228T153212 CO01 CS OFFL SIR IOPR 2 20210228T153232 20210228T153252 CO01 CS OFFL SIR IOPR 2 20210228T153235 20210228T153252 CO01 CS OFFL SIR IOPR 2 20210228T153235 20210228T153252 CO01 CS OFFL SIR IOPR 2 20210228T153252 20210228T153252 CO01 CS OFFL SIR IOPR 2 20210228T153252 20210228T153252 CO01 CS OFFL SIR IOPR 2 20210228T153252 20210228T153252 CO01 CS OFFL SIR IOPR 2 20210228T153255 20210228T153255 CO01 CS OFFL SIR IOPR 2 20210228T153055 20210228T154258 CO01 CS OFFL SIR IOPR 2 20210228T17100 20210228T154258 CO01 CS OFFL SIR IOPR 2 20210228T17100 20210228T154258 CO01 CS OFFL SIR IOPR 2 20210228T17100 20210228T17100 CO01 CO03 Allimeter Range Outsilly PLRM, CO05 Allimeter Range outsill backscatter Quality Plags have been set for one or more records. CO03 CARRIER Range SSHA SWH and Backscatter Quality Plags have been set for one or conds. CO03 Allimeter Range outsill SPIRM, CO05 Allimeter Range Outsilly PLR	CS_OFFL_SIR_IOPR_2_20210228T121445_20210228T122445_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Altmeter Range Quality PLRM. OCG Backscatter Quality PLRM. OCG	CS_OFFL_SIR_IOPR_2_20210228T122445_20210228T122615_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_20210228T135715_20210228T140344_C001 CS_OFFL_SIR_IOPR_2_20210228T140344_20210228T140317_C001 CS_OFFL_SIR_IOPR_2_20210228T140344_20210228T140317_C001 CS_OFFL_SIR_IOPR_2_20210228T140344_20210228T140317_C001 CS_OFFL_SIR_IOPR_2_20210228T153211_20210228T153219_C001 CS_OFFL_SIR_IOPR_2_20210228T153211_20210228T153219_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T150225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T150215_C001 CS_OFFL_SIR_IOPR_2_20210228T150602_20210228T150215_C001 CS_OFFL_SIR_IOPR_2_20210228T1700602_20210228T17001_C001 CS_OFFL_SIR_IOPR_2_20210228T1700602_20210228T171001_C001 CS_OFFL_SIR_IOPR_2_20210228T17100_20210228T171001_C001 CS_OFFL_SIR_IOPR_2_20210228T171001_20210228T171001_C001 CS_OFFL_SIR_IOPR_2_20210228T171001_20210228T172001_C001 CS_OFFL_SIR_IOPR_2_20210228T171001_20210228T172001_C001 CS_OFFL_SIR_IOPR_2_202102	CS_OFFL_SIR_IOPR_2_20210228T135222_20210228T135308_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20210228T140344_20210228T153219_C001 CS_OFFL_SIR_IOPR_2_20210228T153211_20210228T153219_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153225_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T153025_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T153025_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T153025_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T153025_20210228T1540015 CS_OFFL_SIR_IOPR_2_20210228T1710002 CS_OFFL_SIR_IOPR_2_20210228T1710002 CS_OFFL_SIR_IOPR_2_20210228T1710002 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171010_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171010_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171010_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171010_C001 COCG_Altimeter Range Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171010_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171010_C001 COCG_Altimeter Range Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171018_C001 CS_OFFL_SIR_IOPR_2_20210228T171100_20210228T171018_C001 CS_OFFL_SIR_IOPR_2_20210228T171010_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T17100_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T17100_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T17100_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_	CS_OFFL_SIR_IOPR_2_20210228T135335_20210228T135502_C001	_	
CS_OFFL_SIR_IOPR_2_20210228T140344_20210228T172018_C001 And Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM. CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153252_C001 CS_OFFL_SIR_IOPR_2_20210228T153255_20210228T153252_C001 CS_OFFL_SIR_IOPR_2_20210228T153255_20210228T153252_C001 CS_OFFL_SIR_IOPR_2_20210228T153625_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T153625_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T153625_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T160802_20210228T160815_C001 CS_OFFL_SIR_IOPR_2_20210228T160802_20210228T171011_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171011_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171011_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 Altimeter Range and Backscatter Quality PLRM, COGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 Altimeter Range and Backscatter Quality PLRM, COGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocoan Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocoan Altimeter Range	CS_OFFL_SIR_IOPR_2_20210228T135715_20210228T140344_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_20210228T153225_20210228T153252_C001 CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153252_C001 CS_OFFL_SIR_IOPR_2_20210228T153625_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T166602_20210228T164228_C001 CS_OFFL_SIR_IOPR_2_20210228T166602_20210228T160815_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171001 CS_OFFL_SIR_IOPR_2_20210228T1711844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172030_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172030_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172030_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172030_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172030_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172030_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172030_C001	CS_OFFL_SIR_IOPR_2_20210228T140344_20210228T140917_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_20210228T153625_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T153625_20210228T154228_C001 CS_OFFL_SIR_IOPR_2_20210228T160602_20210228T160815_C001 CS_OFFL_SIR_IOPR_2_20210228T17130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T17130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 C	CS_OFFL_SIR_IOPR_2_20210228T153211_20210228T153219_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM. CS_OFFL_SIR_IOPR_2_20210228T160602_20210228T160815_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20010228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20010228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228	CS_OFFL_SIR_IOPR_2_20210228T153225_20210228T153252_C001		, ,
CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171201_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T171701_C001 CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T17101_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20010228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20010228T172003_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20010228T172003_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20010228T172003_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172003_C001	CS_OFFL_SIR_IOPR_2_20210228T153625_20210228T154228_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_20210228T171610_20210228T17101_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172033_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Alti	CS_OFFL_SIR_IOPR_2_20210228T160602_20210228T160815_C001		
CS_OFFL_SIR_IOPR_2_20210228T171010_20210228T17701_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. CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 OCOG Backscatter Quality 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Alt	CS_OFFL_SIR_IOPR_2_20210228T171130_20210228T171201_C001		
CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Qualit	CS_OFFL_SIR_IOPR_2_20210228T171610_20210228T171701_C001		
CS_OFFL_SIR_IOPR_2_20210228T172018_20210228T172303_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Plags Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPR_2_20210228T171844_20210228T172018_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_20210228T172018_20210228T172303_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_20210228T173226_20210228T173334_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_20210228T174330_20210228T174403_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_20210228T181809_20210228T181829_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_20210228T185501_20210228T185555_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_20210228T185555_20210228T190217_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_20210228T190744_20210228T191008_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_20210228T191447_20210228T191702_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_20210228T194433_20210228T194533_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_20210228T203316_20210228T203426_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_20210228T203728_20210228T204241_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_20210228T221444_20210228T221611_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_20210228T221632_20210228T222431_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_20210228T234222_20210228T234605_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_20210228T235458_20210301T000354_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 215

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: 69

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 147

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

6.1 P2P Product Format Check

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

Number of products with errors: 0

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors: 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210227T235910_20210228T004846_C001	Mean Sea Surface (1), Mean 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_220210228T004846_20210228T013825_C001	Mean Sea Surface (1), Mean 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_220210228T013825_20210228T022801_C001	Mean Sea Surface (1), Mean 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_220210228T022801_20210228T031739_C001	Mean Sea Surface (1), Mean 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_220210228T031739_20210228T040716_C001	Mean Sea Surface (1), Mean 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_220210228T040716_20210228T045654_C001	Mean Sea Surface (1), Mean 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_220210228T045654_20210228T054630_C001	Mean Sea Surface (1), Mean 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_220210228T054630_20210228T063609_C001	Mean Sea Surface (1), Mean 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_220210228T063609_20210228T072545_C001	Mean Sea Surface (1), Mean 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_220210228T072545_20210228T081523_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (Fea) Sunate (1), View Dynamic Tide (Fea) Sunate (1), View Dynamic Ocean Tide (1), View Dynamic Ocean Dynamic Oc	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_220210228T081523_20210228T090500_C001	Topography (1), Total Geocentric Ocean	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_220210228T090500_20210228T095438_C001	Mean Sea Surface (1), Mean 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_220210228T095438_20210228T104414_C001	Mean Sea Surface (1), Mean 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_220210228T104414_20210228T113353_C001	Mean Sea Surface (1), Mean 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_220210228T113353_20210228T122329_C001	Mean Sea Surface (1), Mean 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_220210228T122329_20210228T131307_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_220210228T131307_20210228T140244_C001	Mean Sea Surface (1), Mean 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_220210228T140244_20210228T145222_C001	Mean Sea Surface (1), Mean 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_220210228T145222_20210228T154158_C001	Mean Sea Surface (1), Mean 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_220210228T154158_20210228T163137_C001		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_220210228T163137_20210228T172113_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_220210228T172113_20210228T181051_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_220210228T181051_20210228T190028_C001	Mean Sea Surface (1), Mean 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_220210228T190028_20210228T195006_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_220210228T195006_20210228T203942_C001	Mean Sea Surface (1), Mean 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_220210228T203942_20210228T212921_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) 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_IOP_220210228T212921_20210228T221857_C001	Mean Sea Surface (1), Mean 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_220210228T221857_20210228T230836_C001	Mean Sea Surface (1), Mean 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_220210228T230836_20210228T235812_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220210228T235812_20210301T004750_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210228T022801_20210228T031739_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.

27

Number of products with errors:

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 25

P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	213	213	3	210	0
SIR_IOPR1B	137	109	2	107	0
SIR_IOPN1B	109	137	0	137	0
SIR_IOPM_2	213	213	144	69	0
SIR_IOPR_2	137	109	44	65	0
SIR_IOPN_2	109	137	47	87	3
SIR_IOP_P2P	29	29	0	26	3

7.1 QCC Errors

Number of QCC reports with errors:

12

Total number	of occurrences	of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	3	3	3	3							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

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

7.2 QCC Warnings

Number of QCC reports with warnings

2149

Total numb	er of	occurrences of	feac	h warni	ing
NCDE	NAV/IC	SEDNODE		AVAIONICE	7

	Total number of occurrences of each warning						
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_IOPM1B	210	0	0	0	0	0	0
SIR_IOPM_2	0	0	45	49	1	53	0
SIR_IOPN1B	107	0	0	0	0	0	0

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SIR_IOPR1B	132	0	0	0	0	0	0
SIR_IOPR_2	0	3	24	40	4	24	21
		_					
Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	41	4	0	39	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	19	20	1	0	0	24	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	8	31	8	0	38	0	45

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	29	0	0	9	30	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	36	0	0	28	13	42	57
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	0	35	0	0	58	22

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD
SIR_IOPM1B	0	0	0	0	1	0	0
SIR_IOPM_2	3	40	0	4	1	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	32	36	33	13	0	0	3
SIR_IOPR1B	0	0	0	0	0	1	0
SIR IOPR 2	9	27	37	3	0	0	7

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	21	27	28	I X	29	18	27
	•						

SIR IOP 2 27 7 18 28 23 17 29	Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
	SIR_IOP_2_	27	7		28	23	17	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR_IOP_2_	18	25	28	18	15	29	

	Test name	
		Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean - NetCDF
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	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	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
٥.	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)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample

7.3 Missing QCC Reports

SIR_IOPN_2

Number of products with missing QCC reports:

Product name	
No IOPX reports missing	

Product name

CS_OFFL_SIR_IOP_2__20210228T230836_20210228T235812_C002