

QA4EO Daily Report for IOP data:

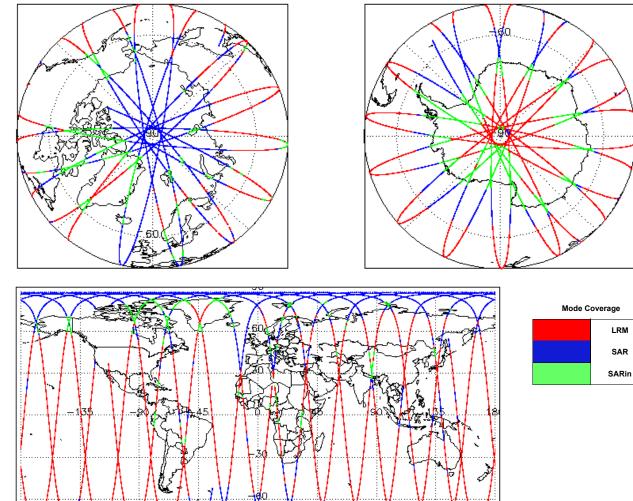
<u>25/12/2021</u>

neut Dreductions	06-Jan-2022	Check	L1 & L2	P2P
eport Production:	06-Jan-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.

1. Overview

Mission / Instrument News		
24-Dec-2021	None	
25-Dec-2021	None	
26-Dec-2021	Nothing planned	





3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

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 inconsi	istencies and/or errors raised by the ground-segment processing chain.		
L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the 11b_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: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-	-determined baseline and also to ch	eck the validity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
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CryoSat L1B data includes a correction error flag for each measurement record	I. 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 measurem	ent record. The bit value of this flag	indicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR produc	cts due to a configuration issue. This	s is being investigated and will be updated in the next SW update.		
Number of products with errors: 2				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20211225T042741_20211225T050116_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more		
		records There is an error in the scaling of the L1B waveform for one or more		
CS_OFFL_SIR_IOPM1B_20211225T193916_20211225T194453_C001	Power scaling error	records		
4.6 L1B Waveform Group Data Check				
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CryoSat I 1B data includes a waveform data flad for each measurement record				
er je sa z ro data molados a wavolorni data nagitor cachi measurementi record.	. The bit value of this flag indicates a	any problems when set.		
	-	any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is t	-	any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is to Number of products with errors: 21	-	any problems when set. Description		
Loss of Echo Flag: This flag is currently set for products over land, but this is in Number of products with errors: 21 Product	to be expected.			
Loss of Echo Flag: This flag is currently set for products over land, but this is 1 Number of products with errors: 21 Product CS_OFFL_SIR_IOPM1B_20211225T214740_20211225T222140_C001	to be expected.	Description		
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Loss of Echo Flag: This flag is currently set for products over land, but this is f Number of products with errors: 21 Product 21 CS_OFFL_SIR_IOPM1B_20211225T214740_20211225T222140_C001 CS_OFFL_SIR_IOPN1B_20211225T014156_20211225T014747_C001 CS_OFFL_SIR_IOPN1B_20211225T024105_20211225T042406_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 CS_OFFL_SIR_IOPN1B_20211225T055504_20211225T100448_C001 CS_OFFL_SIR_IOPN1B_20211225T100037_20211225T105359_C001 CS_OFFL_SIR_IOPN1B_20211225T0500_20211225T105359_C001 CS_OFFL_SIR_IOPN1B_20211225T021147_20211225T021327_C001 CS_OFFL_SIR_IOPN1B_20211225T023704_20211225T023759_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T023759_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T02227_C001 CS_OFFL_SIR_IOPR1B_20211225T02146_20211225T072227_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T02349_C001 CS_OFFL_SIR_IOPR1B_20211225T02146_20211225T02349_C001 CS_OFFL_SIR_IOPR1B_20211225T02146_20211225T02349_C001 CS_OFFL_SIR_IOPR1B_20211225T124345_20211225T124456_C001 CS_OFFL_SIR_IOPR1B_20211225T124345_20211225T133329_C001	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo		
Loss of Echo Flag: This flag is currently set for products over land, but this is f Number of products with errors: 21 Product 21 CS_OFFL_SIR_IOPM1B_20211225T214740_20211225T222140_C001 CS_OFFL_SIR_IOPN1B_20211225T014156_20211225T014747_C001 CS_OFFL_SIR_IOPN1B_20211225T024105_20211225T042316_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 CS_OFFL_SIR_IOPN1B_20211225T055504_20211225T00448_C001 CS_OFFL_SIR_IOPN1B_20211225T100037_20211225T100448_C001 CS_OFFL_SIR_IOPN1B_20211225T105001_20211225T001448_C001 CS_OFFL_SIR_IOPN1B_20211225T0100037_20211225T021327_C001 CS_OFFL_SIR_IOPN1B_20211225T021147_20211225T021327_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T023759_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T02146_20211225T023759_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T02405_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T090349_C001 CS_OFFL_SIR_IOPR1B_20211225T124345_20211225T133329_C001 CS_OFFL_SIR_IOPR1B_20211225T132826_20211225T133329_C001 CS_OFFL_SIR_IOPR1B_20211225T144545_20211225T144456_C001	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo		
Loss of Echo Flag: This flag is currently set for products over land, but this is f Number of products with errors: 21 Product 21 CS_OFFL_SIR_IOPM1B_20211225T214740_20211225T222140_C001 CS_OFFL_SIR_IOPN1B_20211225T014156_20211225T014747_C001 CS_OFFL_SIR_IOPN1B_20211225T024105_20211225T024316_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 CS_OFFL_SIR_IOPN1B_20211225T055504_20211225T055522_C001 CS_OFFL_SIR_IOPN1B_20211225T100037_20211225T100448_C001 CS_OFFL_SIR_IOPN1B_20211225T105001_20211225T105046_C001 CS_OFFL_SIR_IOPN1B_20211225T023704_20211225T021327_C001 CS_OFFL_SIR_IOPN1B_20211225T023759_20211225T023759_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T090349_C001 CS_OFFL_SIR_IOPR1B_20211225T124456_20211225T133329_C001 CS_OFFL_SIR_IOPR1B_20211225T140425_20211225T133329_C001 CS_OFFL_SIR_IOPR1B_20211225T140453_C001	Test Failed Loss of Echo Loss of Echo	DescriptionThe tracking echo is missing for one or more recordsThe tracking echo is missing for one or m		
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for products over land, but this is I Number of products with errors: 21 Product 21 CS_OFFL_SIR_IOPM1B_20211225T214740_20211225T02440_C001 CS_OFFL_SIR_IOPN1B_20211225T014156_20211225T024316_C001 CS_OFFL_SIR_IOPN1B_20211225T024105_20211225T024316_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T024507_C001 CS_OFFL_SIR_IOPN1B_20211225T055504_20211225T0455522_C001 CS_OFFL_SIR_IOPN1B_20211225T100037_20211225T105359_C001 CS_OFFL_SIR_IOPN1B_20211225T105001_20211225T105359_C001 CS_OFFL_SIR_IOPN1B_20211225T105001_20211225T105946_C001 CS_OFFL_SIR_IOPN1B_20211225T023704_20211225T021327_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T023759_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T072146_20211225T07227_C001 CS_OFFL_SIR_IOPR1B_20211225T072146_20211225T090349_C001 CS_OFFL_SIR_IOPR1B_20211225T0355_20211225T133329_C001 CS_OFFL_SIR_IOPR1B_20211225T14345_20211225T133329_C001 CS_OFFL_SIR_IOPR1B_20211225T140453_C001 CS_OFFL_SIR_IOPR1B_20211225T141214_20211225T140453_C001 CS_OFFL_SIR_IOPR1B_20211225T141244_20211225T143710_C001 CS_OFFL_SIR_IOPR1B_20211225T1413320_20211225T143710_C001 CS_OFFL_SIR_IOPR1B_20211225T143320_20211225T143710_C001	Test Failed Loss of Echo Loss of Echo	DescriptionThe tracking echo is missing for one or more recordsThe tracking echo is missing for one or m		
Loss of Echo Flag: This flag is currently set for products over land, but this is f Number of products with errors: 21 Product CS_OFFL_SIR_IOPM1B_20211225T214740_20211225T022140_C001 CS_OFFL_SIR_IOPN1B_20211225T014156_20211225T014747_C001 CS_OFFL_SIR_IOPN1B_20211225T024105_20211225T042406_C001 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 CS_OFFL_SIR_IOPN1B_20211225T055504_20211225T100448_C001 CS_OFFL_SIR_IOPN1B_20211225T100037_20211225T100448_C001 CS_OFFL_SIR_IOPN1B_20211225T105001_20211225T105096_C001 CS_OFFL_SIR_IOPN1B_20211225T015000_20211225T100448_C001 CS_OFFL_SIR_IOPN1B_20211225T023704_20211225T021327_C001 CS_OFFL_SIR_IOPN1B_20211225T023704_20211225T021327_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T023759_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023759_20211225T024105_C001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T023709_2001 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T13329_C001 CS_OFFL_SIR_IOPR1B_20211225T144545_20211225T13329_C001 CS_OFFL_SIR_IOPR1B_20211225T142456_C001 CS_OFFL_SIR_IOPR1B_20211225T140453_C001 CS_OFFL_SIR_IOPR1B_20211225T1410202_020121225T140453_C001 CS_OFFL	Test Failed Loss of Echo Loss of Echo	DescriptionThe tracking echo is missing for one or more recordsThe tracking echo is missing for one or m		
Loss of Echo Flag: This flag is currently set for products over land, but this is a Number of products with errors: 21 Product 21 CS_OFFL_SIR_IOPM1B_20211225T214740_20211225T014747_C001 22 CS_OFFL_SIR_IOPN1B_20211225T024105_20211225T014747_C001 22 CS_OFFL_SIR_IOPN1B_20211225T024105_20211225T042306_C001 22 CS_OFFL_SIR_IOPN1B_20211225T042019_20211225T042507_C001 22 CS_OFFL_SIR_IOPN1B_20211225T055504_20211225T055522_C001 22 CS_OFFL_SIR_IOPN1B_20211225T100037_20211225T105359_C001 22 CS_OFFL_SIR_IOPN1B_20211225T105001_20211225T055522_C001 22 CS_OFFL_SIR_IOPN1B_20211225T100037_20211225T105359_C001 22 CS_OFFL_SIR_IOPN1B_20211225T05550_20211225T021327_C001 22 CS_OFFL_SIR_IOPR1B_20211225T023704_20211225T023759_C001 22 CS_OFFL_SIR_IOPR1B_20211225T072146_20211225T024105_C001 22 CS_OFFL_SIR_IOPR1B_20211225T072146_20211225T07227_C001 22 CS_OFFL_SIR_IOPR1B_20211225T072146_20211225T03349_C001 22 CS_OFFL_SIR_IOPR1B_20211225T124345_20211225T133329_C001 22 CS_OFFL_SIR_IOPR1B_20211225T1432826_20211225T133329_C001 22 CS_OFFL_SIR_IOPR1B_20211225T143320_20211225T143701_C001 22 <	Test Failed Loss of Echo Loss of Echo	DescriptionThe tracking echo is missing for one or more recordsThe tracking echo is missing for one or m		

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

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> 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_20211225T154606_20211225T154644_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_IOPM_2_20211225T171516_20211225T171800_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_20211225T225113_20211225T230848_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_20211225T000626_20211225T000900_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_20211225T010136_20211225T010257_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_20211225T014156_20211225T014747_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_20211225T024105_20211225T024316_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_20211225T032352_20211225T032535_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_20211225T033415_20211225T033618_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_20211225T042019_20211225T042507_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_20211225T051213_20211225T051432_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_20211225T064425_20211225T064657_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20211225T082252_20211225T082605_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_20211225T090726_20211225T090854_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_20211225T100037_20211225T100448_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_20211225T101022_20211225T101147_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_20211225T105001_20211225T105359_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_20211225T105359_20211225T105401_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_20211225T114814_20211225T114957_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_20211225T123204_20211225T123259_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_20211225T140608_20211225T140906_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20211225T141001_20211225T141214_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_20211225T150504_20211225T150856_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_20211225T150900_20211225T150946_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_20211225T154644_20211225T155038_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_20211225T163631_20211225T163902_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_20211225T164623_20211225T164810_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_20211225T195532_20211225T195646_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_20211225T200425_20211225T200540_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_20211225T213446_20211225T213609_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_20211225T214119_20211225T214428_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20211225T231534_20211225T231819_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_20211225T232023_20211225T232551_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T005458_20211225T010025_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T010025_20211225T010135_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T023704_20211225T023759_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T023759_20211225T024105_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T024702_20211225T024818_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height, the Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPR_2_20211225T041328_20211225T042019_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T055522_20211225T060046_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T072335_20211225T072528_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211225T073431_20211225T074225_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T091240_20211225T092209_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T105401_20211225T110143_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T123259_20211225T123840_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T141214_20211225T141903_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T155039_20211225T155557_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T172855_20211225T173852_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T190632_20211225T191408_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T192327_20211225T192524_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211225T204423_20211225T205214_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T205214_20211225T205337_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T210311_20211225T210648_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211225T222436_20211225T223114_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20211225T223114_20211225T223534_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors: 2		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211225T042741_20211225T050116_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20211225T193916_20211225T194453_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211225T001349_20211225T001527_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_20211225T001748_20211225T002401_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_20211225T003223_20211225T003407_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_20211225T003417_20211225T003518_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_20211225T003959_20211225T004649_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_20211225T005318_20211225T005427_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_20211225T010825_20211225T011418_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_20211225T011512_20211225T012400_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_20211225T013019_20211225T014155_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_20211225T015042_20211225T015504_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_20211225T015718_20211225T020352_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_20211225T020502_20211225T021147_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_20211225T021327_20211225T022802_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_20211225T022851_20211225T022858_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_20211225T025019_20211225T025331_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_20211225T025502_20211225T025728_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_20211225T025851_20211225T030339_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_20211225T030636_20211225T032231_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_20211225T032535_20211225T033414_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_20211225T033641_20211225T035911_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_20211225T042507_20211225T042610_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_20211225T042741_20211225T050116_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_20211225T050739_20211225T051212_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_20211225T051600_20211225T052023_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_20211225T052040_20211225T054051_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_20211225T061329_20211225T063915_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_20211225T064657_20211225T065250_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_20211225T065522_20211225T071705_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_20211225T071718_20211225T072146_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_20211225T073151_20211225T073252_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_20211225T074523_20211225T081913_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_20211225T082605_20211225T083122_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_20211225T083802_20211225T084015_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_20211225T090854_20211225T091130_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_20211225T092500_20211225T093409_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_20211225T093655_20211225T095835_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_20211225T100615_20211225T101022_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_20211225T101515_20211225T102529_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_20211225T102717_20211225T103426_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_20211225T103510_20211225T103952_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_20211225T110145_20211225T110219_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_20211225T110432_20211225T113742_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_20211225T113950_20211225T114507_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_20211225T114526_20211225T114813_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_20211225T115608_20211225T122624_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_20211225T124021_20211225T124036_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_20211225T124640_20211225T125927_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_20211225T130132_20211225T131647_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_20211225T131903_20211225T132405_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_20211225T132425_20211225T132436_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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Class C			
CB CPFL_BR_OPU_2_20211221112201 20211221112201 202112201	CS_OFFL_SIR_IOPM_2_20211225T132444_20211225T132608_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CH_URL_BRUEDRY_200112251140218_0001 perturbation of the construction of the cons	CS_OFFL_SIR_IOPM_2_20211225T133329_20211225T134346_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
 Big Jern Jink John J. 201 (1281) 1020 (12	CS_OFFL_SIR_IOPM_2_20211225T135006_20211225T140219_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2: 0FL SR, 0FL 2, 20112211432, 20112211432, 2011 C2: 0FL SR, 0FL 2, 20112211433, 2011221143, 20112211433, 20112211433, 20112211433, 20112211434, 20112211434, 20112211434, 20112211434, 20112211434, 20112211	CS_OFFL_SIR_IOPM_2_20211225T142300_20211225T142313_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
DB_GPH_SBR_OPM_2_00112211425412_0011221146340_001 and the code Amount Prage and Balaceater Quality Flags have been and an or an interacting. DB_GPH_SBR_OPM_2_02011221146341_02011221146341_0011 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221146341_02011221146343_001 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221146341_02011 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221146341_02011 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221146341_0201 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221143644_0001 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221143645_000_0001 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221143645_000_0001 DOGA Allinear Revge 304, Silver and Team code. DB_GPH_SBR_OPM_2_02011221143645_000_0001 DOGA Allinear Revge Duality, COG RE_GPH_SBR_OPM_2_02011221146457_00012211251146400_0001 DOGA Allinear Revge Duality, COG RE_GPH_SBR_OPM_2_02011221146457_00012211251146400_0001 DOGA Allinear Revge Duality, COG RE_GPH_SBR_OPM_2_020112251146400_0001 DOGA Allinear Revge SILVEST Te COGA Allinear Revge SILVEST RE_GPH_SBR_OPM_2_020112251146400_0001 DOGA Allinear Revge SILVEST Te COGA Allinear Revge SILVEST RE_	CS_OFFL_SIR_IOPM_2_20211225T143710_20211225T143953_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OLD-TL_SPLORM_C2.0011225110309_02011225110309_02011 Redestate Daily Nor one runner needs. C8. 0FTL_SPL_0FM_2_20211225115109_02211225116408_02011 CODE Affinitier Range and Backscater Cuality Fags To Come Affinitier Range and Backscater Cuality Fags C8. 0FTL_SPL_0FM_2_20211225116409_0211225116408_02011 CODE Affinitier Range and Backscater Cuality The CODE Affinitier Range and Backscater Cuality Fags C8. 0FTL_SPL_0FM_2_20211225116409_02112251164000_0211251164000_021125116409_02011225116409_0211225116409_02011	CS_OFFL_SIR_IOPM_2_20211225T144132_20211225T145549_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
 OFL_SIR_UPML2_20211225115108_202112251154838_C001 and Backscatter Quality, COOG Alternee Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Quality Flags have been after doctored. OCOO Alternee' Praya and Backscatter Qualit	CS_OFFL_SIR_IOPM_2_20211225T145817_20211225T150316_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Oct PL_SR_UPH_2_201125116308_021125116308_001 Backater Dually Backater Du	CS_OFFL_SIR_IOPM_2_20211225T151009_20211225T154336_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB, OFFL_SIR_JOPM_2_20211225119539_20211225119539_2001 Am Beakcatter Quality, COGG Allineter Range Quality, COGG CG, OFFL_SIR_JOPM_2_20211225119429_20211225119428_C001 CG, OFFL_SIR_JOPM_2_20211225119429_20211225119428_C001 CG, OFFL_SIR_JOPM_2_20211225119429_20211225119428_C001 CG, OFFL_SIR_JOPM_2_20211225119429_20211225119429_C001 CG, OFFL_SIR_JOPM_2_20211225119429_20211225119429_C001 CG, OFFL_SIR_JOPM_2_202112251191952_C001 CG, OFFL_SIR_JOPM_2_202112251191962_C001 CG, OFFL_SIR_JOPM_2_202112251191964_202112251191962_C001 CG, OFFL_SIR_JOPM_2_202112251191964_202112251191962_C001 CGG, OFFL_SIR_JOPM_2_202112251191964_20211225119264_0001 CGG, OFFL_SIR_JOPM_2_202112251191964_20211225119264_0001 CGG, OFFL_SIR_JOPM_2_202112251191964_20211225119264_0001 CGG, OFFL_SIR_JOPM_2_202112251191964_20211225119264_0001 CGG, OFFL_SIR_JOPM_2_202112251191964_20211225119264_0001 CGG, OFFL_SIR_JOPM_2_20211225119644_20211225192602_C001 CGG, OFFL_SIR_JOPM_2_20211225199002_C001 CGG, Allineter Range, SSH, SWH CGG, OFFL_SIR_JOPM_2_20211225199002_C001 CGG, Allineter Range, SSH, SWH CGG, OFFL_SIR_JOPM_2_20211225199002_C001 CGG, OFFL_SIR_JOPM_2_20211225199002_C001 CGG, OFFL_SIR_JOPM_2_20211225	CS_OFFL_SIR_IOPM_2_20211225T154606_20211225T154644_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OS_JPPL_SIR_UPPL_2AUX1220116302_0211225116463_0001 Backscatter Quality for one or more records. C6_OFFL_SIR_UPPL_2_202112251164623_0001 DOOD Allmeter Range Quality, OCOG The OCDE Allmeter Range and Backscatter Quality Flags have been and backscatter Quality, Flags C6_OFFL_SIR_UPPL_2_202112251164623_0001 DOOD Allmeter Range, SHA, SWH and Backscatter Quality, OCOG The OCDE Allmeter Range and Backscatter Quality, Flags have been and Backscatter Quality, COCG C6_OFFL_SIR_UPPL_2_202112251171516_202112251171516_00010 Ocean Altmeter Range, SHA, SWH and Backscatter Quality, COCG The OCDEA Altmeter Range, SHA, SWH and Backscatter Quality, Flags have been and Backscatter Quality, COCG C6_OFFL_SIR_UPPL_2_202112251171516_202112251171640_0001 Ocean Altmeter Range, SHA, SWH and Backscatter Quality, COCG C6_OFFL_SIR_UPPL_2_202112251171640_0001 Ocean Altmeter Range, SHA, SWH and Backscatter Quality, COCG C8_OFFL_SIR_UPPL_2_20211225118240_001 Ocean Altmeter Range, SHA, SWH and Backscatter Quality, Flags have been attributer Range and Backscatter Quality, Flags have been attributer Range and Backscatter Quality, Flags have been attributer Range and Backscatter Quality, COCG C8_OFFL_SIR_UPPL_2_20211225118240_0001 Ocean Altmeter Range, SHA, SWH and Backscatter Quality, Flags have been attributer Range and Backscatter Quality, COCG <td>CS_OFFL_SIR_IOPM_2_20211225T161259_20211225T163503_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_IOPM_2_20211225T161259_20211225T163503_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Column Column Count (2011) Backscatter Quality for one or more records. CS, OFFL_SIR_JOPM_2_20211225T16420_0211225T171507_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and be COCO Altimeter Range, SSHA, SWH and Backscatter Quality Flags. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags. CS_OFFL_SIR_JOPM_2_20211225T174502_0211225T171507_C001 Doean Altimeter Range, SSHA, SWH and Backscatter Quality Flags. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags. CS_OFFL_SIR_JOPM_2_20211225T174922_0211225T174922_0211225T181419_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags. The Ocean Altimeter Range and Backscatter Quality Flags. CS_OFFL_SIR_JOPM_2_20211225T18149_0011 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags. The Ocean Altimeter Range and Backscatter Quality Flags. CS_OFFL_SIR_JOPM_2_20211225T18149_0011 OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags. The Ocean Altimeter Range and Backscatter Quality Flags. CS_OFFL_SIR_JOPM_2_20211225T18149_0011 OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags. The OCEAN Altimeter Range. SHA, SWH and Backscatter Quality Flags. CS_OFFL_SIR_JOPM_2_20211225T18149_0021102 OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags. The OCEAN Altimeter Range. SHA, SWH and Backscatter Quality Flags. CS_OFFL_SIR_JOPM_2_20211225T181492_0211225T198025_0001	CS_OFFL_SIR_IOPM_2_20211225T163902_20211225T164235_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_JOPM_2_20211225T195402_02011225T191507_C001 and Backscatter Quality COCG Animeter Range and Backscatter Quality Flags have been Atlimeter Range. SSHA, SWH and Backscatter Quality Flags have been Atlimeter Range. SSHA, SWH and Backscatter Quality Flags have been Atlimeter Range. SSHA, SWH and Backscatter Quality Flags have been Atlimeter Range. SSHA, SWH and Backscatter Quality Flags have been Atlimeter Range. SSHA, SWH and Backscatter Quality Flags have been Atlimeter Range and Backscatter Quality Flags have been Atlimeter Range. SSHA, SWH and Backscatter Quality Flags have been Atlimeter Range. SSHA, SWH and Backscatter Quality Flags have been Atlimeter Range Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20211225T164257_20211225T164623_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_JOPM_2_20211225T17160_2021 and Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have been affacted regard Backscatter Quality, COCG and Backscatter Quality, COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been affacted regard Backscatter Quality, COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been affacted regard Backscatter Quality, COCG access Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20211225T18246_20211225T18249_CO11 OCCGA Allimeter Range, SSHA, SWH and Backscatter Quality, OCCG Backscatter Quality, OCCG Allimeter Range, SSHA, SWH and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20211225T18246_20211225T192303_CO11 OCCGA Allimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Allimeter Range and Backscatter Quality, Flags have been and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality, Flags and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and backscatter Quality, COCG Allimeter Range and Backscatter Quality, Flags have been and backscatter Quality, COCG Allimeter Range and Backscatter Quality, Flags have been at for one or more records. CS_OFFL_SIR_JOPM_2_20211225T196646_20211225T200222_C001 Occean Allimeter Range, SSHA, SWH and Backscatter Quality, COCG Backscatter Quality, COCG Allimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20211225T21125T211454_20211	CS_OFFL_SIR_IOPM_2_20211225T164920_20211225T171507_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211225T174622_0211225T181413_0001 and Backscatter Quality.OCOG Allimeter Range and Backscatter Quality. Flags have been and the OCOG Allimeter Range and Backscatter Quality. Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20211225T181646_0211225T182149_0001 Ocean Allimeter Range SIAA, SWH and Backscatter Quality. OCOG Backscatter Quality. OCOG Allimeter Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T182612_0211225T193033_C001 Ocean Allimeter Range, SIAA, SWH and Backscatter Quality. OCOG Allimeter Range and Backscatter Quality. Flags and the OCOG Allimeter Range and Backscatter Quality. Flags and the OCOG Allimeter Range and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags and the OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T196646_20211225T200202_C001 OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T21125T21120_C001 OCOG Allimeter Range. SIAA, SWH and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211464_20	CS_OFFL_SIR_IOPM_2_20211225T171516_20211225T171800_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_202112251182951_202112251190303_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_202112251182951_202112251190303_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality, Flags and the OCOG Altimeter Range and Backscatter Quality, Flags and the OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T195646_20211225T200222_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG CS_OFFL_SIR_IOPM_2_20211225T210020_C0011 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211010_20211225T211349_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211454_20211225T21310_C0011	CS_OFFL_SIR_IOPM_2_20211225T174922_20211225T181413_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211225T182851_20211225T193033_C001 and Backscatter Quality COCG and Backscatter Quality Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality COCG CS_OFFL_SIR_IOPM_2_20211225T192612_20211225T193542_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality SHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T2100907_20211225T204200_C001 Ocean Altimeter Range Quality, OCCG The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211010_20211225T211340_C001 Ocean Altimeter Range Quality, OCCG The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211454_20211225T213120_C001 Ocean Altimeter Range Quality, OCCG The OCCGA Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20211225T181646_20211225T182149_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211225T192612_20211225T193542_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20211225T194835_20211225T195235_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20211225T195646_20211225T195235_C001 Ocean Altimeter Range and Backscatter Quality The OCGA Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20211225T195646_20211225T200222_C001 OCGG Altimeter Range Quality, OCOG The OCGA Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20211225T200907_20211225T204200_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20211225T211010_20211225T211349_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20211225T211454_20211225T213120_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20211225T211454_20211225T213120_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20211225T214740_20211225T214118_C001 Ocean Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20211225T214740_20211225T2140_C001 Ocean Altimeter Range Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20211225T	CS_OFFL_SIR_IOPM_2_20211225T182951_20211225T190303_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211225T194835_20211225T195235_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T195646_20211225T200222_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T200907_20211225T204200_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T2100907_20211225T2104200_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211010_20211225T211349_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211454_20211225T213120_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T21418_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T21418_C001 Ocean Altimeter Range, Quality, OCOG Altimeter Range and Backscatter Quality Fla	CS_OFFL_SIR_IOPM_2_20211225T192612_20211225T193542_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_202112251195946_202112251200222_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20211225T200907_20211225T204200_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH 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_20211225T211010_20211225T211349_C001 OCOG Altimeter Range Quality, OCOG Backscatter 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_20211225T211454_20211225T213120_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T2113609_20211225T214118_C001 Ocean 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_20211225T214740_20211225T214118_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_20211225T214740_20211225T22140_C001 OCOG Altimeter Range, SSHA, SWH The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T214740_20211225T22140_C001 Ocean Altimeter Range, SSHA, SWH The OCean Altimete	CS_OFFL_SIR_IOPM_2_20211225T194835_20211225T195235_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211225T200907_20211225T204200_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T211010_20211225T211349_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_20211225T211454_20211225T213120_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T213609_20211225T214118_C001 Ocean 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_20211225T214740_20211225T214118_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_20211225T214740_20211225T22140_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T214740_20211225T222140_C001 Ocean Altimeter Range, SSHA, SWH a	CS_OFFL_SIR_IOPM_2_20211225T195646_20211225T200222_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_202112251211010_202112251211349_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_202112257211454_202112257213120_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_202112257213609_202112257214118_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_202112257214740_202112257214118_C001 OCCG Altimeter Range Quality, OCOG Backscatter Quality The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_202112257214740_20211225722140_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20211225T200907_20211225T204200_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211225T211454_20211225T213120_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records. CS_OFFL_SIR_IOPM_2_20211225T213609_20211225T214118_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_20211225T213609_20211225T214118_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_20211225T214740_20211225T22140_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20211225T211010_20211225T211349_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_202112251214009_202112251214118_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20211225T214740_20211225T222140_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH Ocean Altimeter Range, SSHA, SWH Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH	CS_OFFL_SIR_IOPM_2_20211225T211454_20211225T213120_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211225T214740_20211225T222140_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_IOPM_2_20211225T213609_20211225T214118_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_IOPM_2_20211225T214740_20211225T222140_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_IOPM_2_20211225T224556_20211225T225017_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20211225T225113_20211225T230848_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_20211225T231819_20211225T232022_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_20211225T232735_20211225T234409_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_20211225T234439_20211225T234747_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_20211225T234924_20211225T235751_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_20211225T024105_20211225T024316_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_20211225T051213_20211225T051432_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_20211225T055228_20211225T055313_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_20211225T074225_20211225T074329_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_20211225T173852_20211225T173905_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_20211225T205626_20211225T205734_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_20211225T005427_20211225T005430_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_20211225T024317_20211225T024433_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_20211225T040655_20211225T040711_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_20211225T052024_20211225T052040_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_20211225T124345_20211225T124456_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_20211225T181413_20211225T181514_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.

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L2 Quality Flags (20Hz PLRM)

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

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

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20211225T000626_20211225T000900_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_20211225T001054_20211225T001349_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_20211225T004658_20211225T004827_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_20211225T010136_20211225T010257_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_20211225T015504_20211225T015643_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_20211225T024105_20211225T024316_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.

Capert, SeqUence County Party more record. CB, GPT, SeqUence County Party The OCCO Barce and Backwader County Parge have been and for core record. CB, GPT, SeqUence, 2, 2021/22271040001, 2021/22211040001, COUT COCOR Additional Parage County Parage. The OCCOR Barce and Backwader County Parge have been and for core record. CB, GPT, SeqUence, 2, 2021/22271040001, 2021/22211040001, COUT COCOR Additional Parage County Parage. The OCCOR Barce and Backwader County Parge have been and for core record. CB, GPT, SeqUence, 2, 2021/22271040001, 2021/222110400			
CH_UPPL_SH_UPPL_CODI (128100330_UPP1 (22100330_UPP1 (22100330_UPP1 (22010330_UPP1 (2201030_UPP1 (22010330_UPP1 (22010300_UPP1 (2201030_UPP1 (2201030	CS_OFFL_SIR_IOPN_2_20211225T024857_20211225T025019_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
 DPL_DPL_SHILDPL_2.0011251100009_00011251100009_0001 DOOD Backstathr Caulty File The Cault Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backstathr Caulty File Door Athenet Fange, SNA, SWH and Backst	CS_OFFL_SIR_IOPN_2_20211225T030339_20211225T030635_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
GS_OFFL_SIR_JOPK_2_202112257042019_202112257050750_D01 GS_OFFL_SIR_JOPK_2_202112257050140_202112257050750_D01 GS_OFFL_SIR_JOPK_2_202112257050140_202112257050750_D01 GCOG Altreter Range Quality PLRM, COOR Range and Backstatter Quality Plags have been set for or non encores. The Occol Range and Backstatter Quality PLRM, COOR Grapp and Backstatter Quality PLRM, COOR Altreter Range Quality PLRM, COOR Grapp and Backstatter Quality PLRM, COOR Altreter Range Quality PLRM, COOR Grapp and Backstatter Quality PLRM, COCO Backstatter Range Quality PLRM, COCO Backstatter Quality PLRM, COCO Altreter Range Quality PLRM, COCO Altreter Ran	CS_OFFL_SIR_IOPN_2_20211225T040503_20211225T040626_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
ClipPer Land, Der Land, Data 1220 1000 Park, 2001 00005 Backaster Casilty more moonts. ClipPer Land, Der Land, De	CS_OFFL_SIR_IOPN_2_20211225T042019_20211225T042507_C001	and Backscatter Quality PLRM, 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.
GS_OFFL_SIR_JOPN_2_20211225T05121_0021225T055318_0001 and Backsoatter Quality PLRM. CODO Runge and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T055238_00211225T055318_0001 OCOO A kinneter Range Quality PLRM. The OCOO Range and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T054392_00211225T073151_0001 OCOO A kinneter Range Quality PLRM. The OCOO Range and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T064392_00211225T073152_0001 OCOO A kinneter Range Quality PLRM. The OCOO Range and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T073152_00011225T073152_0001 OCOO A kinneter Range Quality PLRM. The OCOO Range and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T080526_0001 OCOO A kinneter Range Quality PLRM. The OCOO Range and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T080549_02211225T090555_0001 OCOO A kinneter Range Quality PLRM. The OCOO Range and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T080549_02211225T090554_0001 OCOO A kinneter Range Quality PLRM. The OCOO Range and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T080549_0001 OCOO A kinneter Range SMA, SWH and Backsoatter Quality Flags have been set for or more records. CS_OFFL_SIR_JOPN_2_20211225T104061_0001 OCOO A kinneter Range SMA, SWH and	CS_OFFL_SIR_IOPN_2_20211225T050640_20211225T050739_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
DCPFL_SIR_UOPU_2_021125106322_021125106422_0001 0000 Backscatter Quality more records. C5_OFFL_SIR_UOPU_2_02112251064302_202112251064422_0001 0000 Attracter Range Quality PLRM, 0000 Backscatter Quality The 0000 Rankscatter Quality Flags have been set for or more records. C5_OFFL_SIR_UOPU_2_0211225106342_02112251063526_0001 0000 Attracter Range Quality PLRM, 0000 Backscatter Quality The 0000 Rankscatter Quality Flags have been set for or more records. C5_OFFL_SIR_UOPU_2_02112251080344_022112251080526_0001 0000 Attracter Range Quality PLRM, 0000 Backscatter Quality The 0000 Rankscatter Quality Flags have been set for or more records. C5_OFFL_SIR_UOPU_2_02112251080349_202112251080526_0001 0000 Rankscatter Quality The 0000 Rankscatter Quality Flags have been set for or more records. C5_OFFL_SIR_UOPU_2_02112251080349_202112251080526_0001 0000 Rankscatter Quality The 0000 Range and Backscatter Quality Flags have been set for or more records. C5_OFFL_SIR_UOPU_2_02112251080349_2021122510802312_0001 0000 Rankscatter Quality Flags have been set for or more records. C5_OFFL_SIR_UOPU_2_0211225108037_2021122510802312_0001 0000 Attracter Range Attracter Range and Backscatter Quality Flags have been set for or more records. C5_OFFL_SIR_UOPU_2_02211225110804_022112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251108048_02112251	CS_OFFL_SIR_IOPN_2_20211225T051213_20211225T051432_C001	and Backscatter Quality PLRM, 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.
CB_OFF_SIR_IOFK_2_20211225109312_202112251073151_C001 OCOG Backscatter Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_20211225100314_202112251009526_C001 OCOG Altimater Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_202112251000349_202112251000526_C001 OCOG Altimater Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_202112251000349_202112251000526_C001 OCOG Altimater Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_2021122510003726_202112251000526_C001 OCOG Altimater Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_2021122510003726_202112251000312_C001 OCOG Altimater Range, SMA, SWH and Backscatter Quality Flags have been set for or nore records. The OCOG Altimater Range and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_202112251100037_202112251100401_C001 OCOG Altimater Range, SMA, SWH and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_202112251100037_202112251100309_C001 Mather Range, SMA, SWH and Backscatter Quality Flags have been set for or nore records. CS_OFFL_SIR_IOFK_2_202112251100001_202112251100509_C001 Mather Range, SMA, SWH and Backscatt	CS_OFFL_SIR_IOPN_2_20211225T055228_20211225T055313_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
05_0FFL_SIR_IOPN_2_20211225T08534_20211225T085528_0001 OCOG Backscatter Quality Incore records. 05_0FFL_SIR_IOPN_2_20211225T08534_20211225T085528_0001 OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. 05_0FFL_SIR_IOPN_2_20211225T080525_0001 OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. 05_0FFL_SIR_IOPN_2_20211225T080259_20211225T080554_0001 OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. 05_0FFL_SIR_IOPN_2_20211225T080259_20211225T0802312_C0011 OCOG Alimeter Range SHA, SWH and Backscatter Quality Flags have been set for or more records. The OCOG Range and Backscatter Quality Flags have been set for or more records. 05_0FFL_SIR_IOPN_2_20211225T108027_02211225T108048_0001 OCOG Alimeter Range Cuality FLM, OCOG Alimeter Range Quality FLM, FLM The OCOG Range and Backscatter Quality Flags have been set for or more records. 05_0FFL_SIR_IOPN_2_20211225T10801_20211225T108059_0001 OCOG Alimeter Range Quality FLM, Alimeter Range and Backscatter Quality Flags have been set for or more records. 05_0FFL_SIR_IOPN_2_20211225T10801_20211225T108059_0001 OCOG Alimeter Range Quality FLM, Alimeter Range and Backscatter Quality Flags have been set for or more records. 05_0FFL_SIR_IOPN_2_20211225T138145_20211225T13826_0001	CS_OFFL_SIR_IOPN_2_20211225T064302_20211225T064422_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211225T080349_20211225T080525_C001 OCCG Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T080726_20211225T080525_C001 OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T080726_20211225T10808_C001 The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T10801_20211225T10848_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T108614_20211225T10869_C001 OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T108601_20211225T108595_C001 OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T108606_20211225T103260_C001 OCEA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T103806_C001 OCEGA Altimeter Range, SSHA, SWH and Backscatter Qualit	CS_OFFL_SIR_IOPN_2_20211225T073132_20211225T073151_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCCG Backscater Quality more records. CS_OFFL_SIR_IOPN_2_20211225T090728_20211225T090864_C001 OCCG Backscater Quality PLRM, OCG Altimeter Range and Backscater Quality FLRM, OCG Backscater Quality PLRM, OCG Altimeter Range and Backscater Quality FLRM, OCG Gameter Range Quality PLRM, OCG Gameter Range Qualit	CS_OFFL_SIR_IOPN_2_20211225T085344_20211225T085528_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCGG Backscatter Quality more records. OCGG Backscatter Quality more records. OCGG Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have backscatter Quality PLRM, OCGG OS_OFFL_SIR_IOPN_2_20211225T100037_20211225T100448_C001 Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Ocean Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG OS_OFFL_SIR_IOPN_2_20211225T100037_20211225T10448_C001 Ocean Altimeter Range and Backscatter Quality OS_OFFL_SIR_IOPN_2_20211225T104481_20211225T10448_C001 Ocean Altimeter Range Quality PLRM, OCGG OCGG Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPN_2_20211225T105001_20211225T105050_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG OCGG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have be set for one or more records. CS_OFFL_SIR_IOPN_2_20211225T105001_20211225T103505_C001 Ocean Altimeter Range Quality PLRM, OCGG OCGG Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have be set for one or more records. CS_OFFL_SIR_IOPN_2_20211225T103806_20211225T103805_C001 OCCGG Backscatter Quality PLRM, OCGG The Ocean Altimeter Range and Backscatter Quality Flags have be set	CS_OFFL_SIR_IOPN_2_20211225T090349_20211225T090525_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211225T092259_20211225T092312_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. CS_OFFL_SIR_IOPN_2_20211225T100037_20211225T100448_C001 OcoG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T104814_20211225T104901_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T105001_20211225T105359_C001 Ocean Altimeter Range and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T113814_20211225T113950_C001 Ocean Altimeter Range and Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T113814_20211225T113826_C001 Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T13426_20211225T134452_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134761_20211225T134753_C001 OCOG Altimeter Range Qua	CS_OFFL_SIR_IOPN_2_20211225T090726_20211225T090854_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211225T100448_C001 and Backscatter Quality PLRM, COCG Attimeter Range and Backscatter Quality PLRM, COCG Attimeter Range and Backscatter Quality PLRM, COCG Attimeter Range and Backscatter Quality PLRM, COCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T104814_20211225T104901_C001 OCOG Attimeter Range Quality PLRM, COCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T105001_20211225T105359_C001 OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM The Ocoan Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Attimeter Range, and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20211225T113814_20211225T113950_C001 OCOG Attimeter Range and Backscatter Quality PLRM The Ocoan Attimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20211225T113814_20211225T1138266_C001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134346_20211225T134452_C001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG B	CS_OFFL_SIR_IOPN_2_20211225T092259_20211225T092312_C001	and Backscatter Quality PLRM, 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_20211225T104814_20211225T104801_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20211225T105001_20211225T105359_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134346_20211225T134452_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134761_20211225T134753_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T1456166_20211225T145816_C001 OCOG Al	CS_OFFL_SIR_IOPN_2_20211225T100037_20211225T100448_C001	and Backscatter Quality PLRM, 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_20211225T105001_20211225T105359_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or OCOG Altimeter Range Quality PLRM, CS_OFFL_SIR_IOPN_2_20211225T132608_20211225T132826_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134366_20211225T134452_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T145616_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range a	CS_OFFL_SIR_IOPN_2_20211225T104814_20211225T104901_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211225T113814_20211225T113950_C001 and Backscatter Quality PLRM, OCOG Atimeter Range and Backscatter Quality PLRM, PLRM The OCCean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. CS_OFFL_SIR_IOPN_2_20211225T132608_20211225T132826_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, CS_OFFL_SIR_IOPN_2_20211225T134346_20211225T134452_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134761_20211225T134753_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T145623_20211225T145816_C001 OCCOG Altimeter Range Quality PLRM, OCCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T145623_2021	CS_OFFL_SIR_IOPN_2_20211225T105001_20211225T105359_C001	and Backscatter Quality PLRM, 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_20211225T132806_20211225T132826_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20211225T134346_20211225T134452_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134721_20211225T134753_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T134721_20211225T134753_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T145603_20211225T145816_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T145623_20211225T145816_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records.	CS_OFFL_SIR_IOPN_2_20211225T113814_20211225T113950_C001	and Backscatter Quality PLRM, 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_20211225T1343345_20211225T134452_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20211225T134721_20211225T134753_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The OCCG Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_IOPN_2_20211225T145816_C001 OCCG Altimeter Range Quality PLRM, OCCG The OCCG Range and Backscatter Quality Flags have been set for or more records.	CS_OFFL_SIR_IOPN_2_20211225T132608_20211225T132826_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_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 have b set for one or more records. CS_OFFL_SIR_IOPN_2_20211225T145623_20211225T145816_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPN_2_20211225T134346_20211225T134452_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001 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. The OCOG Range and Backscatter Quality Flags have been set for or	CS_OFFL_SIR_IOPN_2_20211225T134721_20211225T134753_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_IOPN_2_20211225T140608_20211225T140906_C001	and Backscatter Quality PLRM, 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_20211225T145623_20211225T145816_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_IOPN_2_20211225T154644_20211225T155038_C001	and Backscatter Quality PLRM, 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_20211225T160724_20211225T161055_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COCOG	CS_OFFL_SIR_IOPN_2_20211225T160724_20211225T161055_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_IOPN_2_20211225T164623_20211225T164810_C001	and Backscatter Quality PLRM, 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_20211225T182524_20211225T182659_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COCOG Backscatter QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	CS_OFFL_SIR_IOPN_2_20211225T182524_20211225T182659_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20211225T193542_20211225T193916_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_20211225T195532_20211225T195646_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_20211225T200425_20211225T200540_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_20211225T205337_20211225T205400_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_20211225T205626_20211225T205734_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_20211225T231534_20211225T231819_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_20211225T232023_20211225T232551_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_20211224T235926_20211225T000625_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_20211225T005007_20211225T005042_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_20211225T005458_20211225T010025_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_20211225T011418_20211225T011512_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_20211225T012400_20211225T012613_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_20211225T015643_20211225T015718_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_20211225T023759_20211225T024105_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_20211225T024317_20211225T024433_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_20211225T024702_20211225T024818_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_20211225T025331_20211225T025502_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_20211225T041328_20211225T042019_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_20211225T055113_20211225T055228_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_20211225T055313_20211225T055503_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_20211225T055522_20211225T060046_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_20211225T063916_20211225T064302_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_20211225T072335_20211225T072528_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_20211225T073252_20211225T073343_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_20211225T073431_20211225T074225_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_20211225T074330_20211225T074358_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_20211225T091240_20211225T092209_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_20211225T092220_20211225T092259_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_20211225T092313_20211225T092459_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_20211225T101147_20211225T101515_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_20211225T105401_20211225T110143_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_20211225T114957_20211225T115608_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_20211225T123259_20211225T123840_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_20211225T132826_20211225T133329_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_20211225T134753_20211225T135005_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_20211225T140220_20211225T140453_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_20211225T140906_20211225T141001_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_20211225T141214_20211225T141903_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_20211225T143953_20211225T144132_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_20211225T154337_20211225T154606_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_20211225T155039_20211225T155557_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_20211225T161229_20211225T161259_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_20211225T164810_20211225T164920_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_20211225T172855_20211225T173852_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_20211225T181413_20211225T181514_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_20211225T182659_20211225T182951_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_20211225T190447_20211225T190452_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_20211225T190632_20211225T191408_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_20211225T191434_20211225T191642_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_20211225T191742_20211225T191912_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_20211225T194453_20211225T194835_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_20211225T204201_20211225T204228_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_20211225T204423_20211225T205214_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_20211225T205433_20211225T205524_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_20211225T205739_20211225T210113_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_20211225T210311_20211225T210648_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_20211225T213120_20211225T213446_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_20211225T214428_20211225T214740_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_20211225T222140_20211225T222313_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_20211225T222436_20211225T223114_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_20211225T223114_20211225T223534_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_20211225T230849_20211225T231534_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_20211225T232551_20211225T232735_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		L			
Number of products with errors: 210					
5.8 L2 Ocean Retracking Quality Check					
L2 Retracking Flags (20Hz)					
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meas	surement record. The bit value of this flag indic	ates any problems when set.			
Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.					

Number of products with errors:

L2 Retracking Flags (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.

62

152

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220211224T232056_20211225T001032_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211225T001032_20211225T010011_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_220211225T010011_20211225T014947_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_220211225T014947_20211225T023926_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_220211225T023926_20211225T032902_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_220211225T032902_20211225T041840_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_220211225T041840_20211225T050817_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211225T050817_20211225T055755_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_220211225T055755_20211225T064731_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220211225T064731_20211225T073710_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_220211225T073710_20211225T082646_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_220211225T082646_20211225T091624_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_220211225T091624_20211225T100601_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_220211225T100601_20211225T105539_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_220211225T105539_20211225T114515_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_220211225T114515_20211225T123454_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_220211225T123454_20211225T132430_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_220211225T132430_20211225T141408_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_220211225T141408_20211225T150345_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_220211225T150345_20211225T155323_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220211225T155323_20211225T164300_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_220211225T164300_20211225T173238_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_220211225T173238_20211225T182214_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_220211225T182214_20211225T191153_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_220211225T191153_20211225T200129_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211225T200129_20211225T205107_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_220211225T205107_20211225T214044_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_220211225T214044_20211225T223022_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220211225T223022_20211225T231958_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_220211225T231958_20211226T000937_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)

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: 2						
Product	Test Failed	Description				
CS_OFFL_SIR_IOP_220211225T041840_20211225T050817_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records				
CS_OFFL_SIR_IOP_2_20211225T191153_20211225T200129_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	he corresponding L2 products.				
Since the P2P Quality Flags are copied directly from the L2 Quality Flag	s, please see Section 5.6 for the full	ist 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 Flag	s, please see Section 5.6 for the full	ist of products affected.				
Number of products with errors: 30						
P2P Quality Flags (1 Hz & 1Hz PLRM)						
Since the P2P Quality Flags are copied directly from the L2 Quality Flag	s, please see Section 5.6 for the full	ist 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	1 20-Hz measurement record. The bit va	lue of this flag indicates any problems when set.				
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.						
Number of products with errors: 28						
P2P Retracking Flags PLRM						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLI	RM measurement record. The bit value	of this flag indicates any problems when set.				
Ocean Retracking Quality Flag (PLRM): This flag is currently set for produc	cts IOPR and IOPN products over sea ic	e, but this is to be expected.				
Number of products with errors: 30						
	7. IOP QCC Report Ana	lysis				

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	198	198	4	194	0
SIR_IOPR1B	145	107	2	105	0
SIR_IOPN1B	107	145	0	145	0
SIR_IOPM_2	198	198	144	54	0
SIR_IOPR_2	145	107	40	67	0
SIR_IOPN_2	107	145	54	78	13
SIR_IOP_P2P	29	29	0	23	6

7.1 QCC Errors

Number of QCC reports with errors:

Number of QCC	reports with er	rors:	27								
					Total number	of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_IOPR_2	13	1	13	13	1	13					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	6	6	6	6							

rest Description Key:				
Abbreviation	Test name	Details		
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7		
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6		
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7		
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7		
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6		
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7		

7.2 QCC Warnings

Number of QCC reports with warnings

			Total nun	nber of occurrences of e	ach warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_IOPM1B	194	0	0	0	0	0	0
SIR_IOPM_2	0	0	39	42	1	37	0
SIR_IOPN1B	104	0	0	0	0	0	0
SIR_IOPN_2	0	0	12	35	7	22	26
SIR_IOPR1B	142	0	0	0	0	0	0
SIR_IOPR_2	0	13	35	54	1	29	23
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNO	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	26	0	34	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	20	1	0	0	25	0	35
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	11	5	0	51	0	57	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	24	0	0	9	28	0	5
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	29	24	39	55	34
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	52	0	4	66	33	10
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	40	0	4	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	47	2
SIR_IOPN_2	28	27	16	0	0	0	0
SIR_IOPR1B	0	0	0	1	0	145	10
SIR_IOPR_2	39	53	4	1	16	0	0
			r	n		-	
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	
SIR_IOP_2_	20	29	29	8	29	16	27
			J				I
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD		RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCD
SIR_IOP_2_	5	16	29	24	25	29	18
							1
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF		SPHLPQWNCDF	-	-
SIR_IOP_2_	24	27	18	20	29		

Test Description Key:	T	
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: