

QA4EO Daily Report for IOP data:

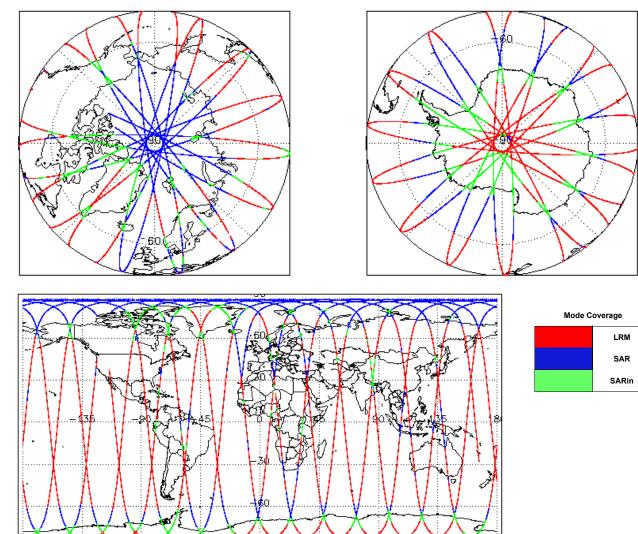
<u>02/12/2021</u>

an art Draduation.	06 Dec 2021	Check	L1 & L2	P2P
Report Production:	06-Dec-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Due ee ee er Llee de		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Used:	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 7.2

1. Overview

Mission / Instr	ument News
01-Dec-2021	None
02-Dec-2021	None
03-Dec-2021	Nothing planned





3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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 incom	sistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B OSARIn chains. A modification is required in the next release.	IOPR and IOPN products because	e the l1b_processing_quality_hr field is not correctly configured in the OSAR and
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 c	heck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	I. The bit value of this flag indicates	s 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		
Attitude Correction Missing: This flag is currently set in error for IOPR produc	cts due to a configuration issue. Th	is is being investigated and will be updated in the next SW update.
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211202T053901_20211202T061221_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record	. The bit value of this flag indicates	any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
Number of products with errors: 24		
Draduat	Test Failed	Description
Product CS_OFFL_SIR_IOPM1B_20211202T015033_20211202T015734_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211202T041022_20211202T041510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211202T062826_20211202T065210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211202T084323_20211202T084428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211202T102019_20211202T102419_C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPM1B 20211202T130737 20211202T133749 C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211202T150135_20211202T151742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211202T035237_20211202T035448_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211202T040900_20211202T041022_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211202T053151_20211202T053638_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211202T120128_20211202T120532_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211202T134334_20211202T134428_C001	Loss of Echo	The tracking concise missing for one or more records
CS_OFFL_SIR_IOPN1B_20211202T151742_20211202T152040_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211202T152131_20211202T152344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T075018_20211202T075433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T083251_20211202T083356_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T084601_20211202T085354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T093023_20211202T093422_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T120031_20211202T120036_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T193829_20211202T194148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T203456_20211202T203654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T220531_20211202T220538_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T224158_20211202T224619_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211202T225559_20211202T225947_C001	Loss of Echo	The tracking echo is missing for one or more records
5.10	P Level 2 Data Qual	ity Chock

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). 0

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. 0

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. 0 Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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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.

DB_UFFL_SR_UPFL_22011/02/101/06_001106_0001106_000100000000	Product	Test Failed	Description
CS_UFT_SIR_UPPL_24211221105208_021102701230_001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_UPPL_2.0211202701230_021102701247_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_UPPL_2.0211202702329_0211027024916_001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_UPPL_2.0211202703494_0221102703482_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_UPPL_2.0211202703494_0221102703482_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_UPPL_2.0211202704454_022112027034573_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_UPPL_2.202112027044545_02211202704452_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_UPPL_2.202112027045452_02012027075827_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPM_2_20211202T024151_20211202T025325_C001	Mean Dynamic Topography (1)	
Concentry Sec. Der L Sec. Der	CS_OFFL_SIR_IOPM_2_20211202T182656_20211202T182855_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_JOPN_2_20211202T0305_20211202T02427_C001 Topography (1), Total Geocentric Ocean Topography (1) Total Second (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Cs_OFFL_SIR_JOPN_2_20211202T034734_20211202T034832_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T034734_20211202T034832_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T04522_20211202T044545_20211202T044752_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T044545_20211202T044752_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T044545_20211202T044752_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T05453_20211202T05827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T05432_20211202T05827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T05432_20211202T05827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T05432_20211202T05827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T05432_20211202T05827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T05432_20211202T05827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T05432_20211202T05827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_20211202T1025735_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1) Cs_OFFL_SIR_JOPN_2_202	CS_OFFL_SIR_IOPN_2_20211202T011756_20211202T012031_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_CFR_SIR_COPN_2_2021102T034734_2021102T034532_C001 Nean Dynamic Topography (1) Topography Height (solution 1) CS_CFR_SIR_COPN_2_20211002T034734_20211002T0344532_C001 Nean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records CS_CFFL_SIR_COPN_2_20211002T045522_20211202T043703_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_CFFL_SIR_COPN_2_20211002T04552_20211202T043703_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_CFFL_SIR_COPN_2_20211202T04552_20211202T043583_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T05435_20211202T075827_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography (1). Total Genoentric Cosan Tide (GOT) CS_OFFL_SIR_IOPN_2_20211202T101566_20211202T10219_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topograp	CS_OFFL_SIR_IOPN_2_20211202T021305_20211202T021427_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS_OFFL_SIR_IOPN_2_20211202T035237_20211202T03548_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The MSS height (solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1) The Genometric	CS_OFFL_SIR_IOPN_2_20211202T025329_20211202T025916_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T04352_00211202T043703_0001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T044545_02211202T044752_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T044545_02211202T053638_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T05433_02211202T075827_0001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records CS_OFFL_SIR_IOPN_2_20211202T075433_02211202T075827_0001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and tidal corrections for one or more records CS_OFFL_SIR_IOPN_2_20211202T075433_02211202T075827_0001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and tidal corrections for one or more records CS_OFFL_SIR_IOPN_2_20211202T075433_02211202T0039735_0001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and tidal corrections for one or more records CS_OFFL_SIR_IOPN_2_20211202T110216_02011 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T110216_0201 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T112152_0211202T112317_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20211202T034734_20211202T034832_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20211202T044545_20211202T044752_C001 Image Sprank	CS_OFFL_SIR_IOPN_2_20211202T035237_20211202T035448_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_202112021053151_20211202T053638_C001 Topography (1) Topography (1) Topography (1) CS_OFFL_SIR_IOPN_2_20211202T053151_20211202T053638_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FCS), Non-Equilibrium Long Period There is an error with the MSS height (solution 1), and the Mean Dynamic Topography height (solution 1), and tidal corrections for one or more records CS_OFFL_SIR_IOPN_2_20211202T075433_20211202T075827_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FCS), Non-Equilibrium Long Period There is an error with the MSS height (solution 1), and tidal corrections for one or more records CS_OFFL_SIR_IOPN_2_20211202T003422_20211202T003735_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T101856_20211202T102019_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T111202_20211202T1112017_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T120532_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T120532_C0	CS_OFFL_SIR_IOPN_2_20211202T043522_20211202T043703_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20211202105351_20211202105827_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_202112021075837_202112021075827_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and tidal corrections for one or more records Tide (GC)T, Total Geocentric Ocean Tide (GC)T, Total Geocentric Ocean Tide (GC)T, Total Geocentric Ocean Tide (FES), Noen-Equilibrium Long Period Coean Tide (SOLUtion 1), and tidal corrections for one or more records Topography (solution 1), and tidal corrections for one or more records Coean Tide (FES), Noen-Equilibrium Long Period Coean Tide (SOLUtion 1), and tidal corrections for one or more records Topography (solution 1), and tidal corrections for one or more records Coean Tide (FES), Noen-Equilibrium Long Period Coean Tide (SOLUtion 1), and the Mean Dynamic Topography (solution 1). CS_OFFL_SIR_IOPN_2_20211202T101856_20211202T102019_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1). CS_OFFL_SIR_IOPN_2_20211202T11202_20211202T111616_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1). CS_OFFL_SIR_IOPN_2_20211202T1120128_20211202T1120128_202011 Mean Sea Surface (1), Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1). Mean Sea Surface (1), Mean Dynamic Topography height (solution 1). CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T120532_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1). There is an error wit	CS_OFFL_SIR_IOPN_2_20211202T044545_20211202T044752_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T075433_20211202T075827_C001 Topography (1), Total Geocentric Cean Tide (GCT), Total Geocentric Cean Tide (GCT), Total Geocentric Cean Tide (GCT) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Cean Tide (GCT) CS_OFFL_SIR_IOPN_2_20211202T093422_20211202T102019_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Cean Tide (GCT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Cean Tide (GCT) CS_OFFL_SIR_IOPN_2_20211202T101856_20211202T102019_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Cean Tide (GCT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)) CS_OFFL_SIR_IOPN_2_20211202T111202_20211202T111616_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)) CS_OFFL_SIR_IOPN_2_20211202T112152_20211202T112033_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Cean Tide (GOT) There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Cean Tide (SOUT) CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T12053_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1)) There is an error with the MSS height (solution 1). CS_OFFL_SIR_IOPN_2_20211202T12051202T120	CS_OFFL_SIR_IOPN_2_20211202T053151_20211202T053638_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T103542_20211202T103535_0001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T101856_20211202T102019_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T111202_20211202T111616_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T112152_20211202T112317_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), the Mean Dynamic Topography (2), Total Geocentric Ocean Tide (solution 1), the Mean Dynamic Topography (2), Total Geocentric Ocean Tide (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), the Total Geocentric Ocean Tide	CS_OFFL_SIR_IOPN_2_20211202T075433_20211202T075827_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
CS_OFFL_SIR_IOPN_2_20211202T10056_20211202T10056_2001 Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (solution 1: GOT) for one or more records CS_OFFL_SIR_IOPN_2_20211202T111202_20211202T111616_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T112152_20211202T112317_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T120532_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 (GOT) CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T125117_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_20211202T120339_20211202T130124_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS	CS_OFFL_SIR_IOPN_2_20211202T093422_20211202T093735_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T112152_20211202T112317_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T112152_20211202T112317_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T120532_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the 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 (GOT) CS_OFFL_SIR_IOPN_2_20211202T124946_20211202T125117_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T12039_20211202T130124_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error	CS_OFFL_SIR_IOPN_2_20211202T101856_20211202T102019_C001		There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T120532_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_IOPN_2_20211202T124946_20211202T125117_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_20211202T125939_20211202T130124_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T140750_20211202T140946_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T140750_20211202T140946_C001 Mean Dynamic Topography (1)	CS_OFFL_SIR_IOPN_2_20211202T111202_20211202T111616_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T120128_20211202T120532_C001 Topography (1), Total Geocentric Ocean Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records CS_OFFL_SIR_IOPN_2_20211202T124946_20211202T125117_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_20211202T125939_20211202T130124_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T140750_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20211202T112152_20211202T112317_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_202112021124946_202112021125117_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_IOPN_2_20211202T125939_20211202T130124_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 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_20211202T120128_20211202T120532_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20211202T124946_20211202T125117_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_202112021134334_202112021134428_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211202T140750_20211202T140956_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1)	CS_OFFL_SIR_IOPN_2_20211202T125939_20211202T130124_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_202112021143737_202112021143956_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_202112021160750_202112021160949_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or	CS_OFFL_SIR_IOPN_2_20211202T134334_20211202T134428_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFEL_SIR_IOPN_2_202112021160750_202112021160949_C001IMean Dynamic Lonography (1)	CS_OFFL_SIR_IOPN_2_20211202T143737_20211202T143956_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
	CS_OFFL_SIR_IOPN_2_20211202T160750_20211202T160949_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_20211202T161635_20211202T162112_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_20211202T161635_20211202T162112_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T174803_20211202T175034_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_20211202T174803_20211202T175034_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T175755_20211202T175939_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_20211202T175755_20211202T175939_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T193654_20211202T193829_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_20211202T193654_20211202T193829_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20211202T211352_20211202T211710_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_20211202T211352_20211202T211710_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211202T224619_20211202T224740_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_20211202T224619_20211202T224740_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOPN_2_20211202T225248_20211202T225559_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPR_2_20211202T002821_20211202T003308_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_20211202T003308_20211202T003433_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_20211202T020611_20211202T021151_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_20211202T021151_20211202T021305_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_20211202T034832_20211202T034920_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_20211202T034920_20211202T035237_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_20211202T052449_20211202T053151_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_IOPR_2_20211202T070651_20211202T071219_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_20211202T083507_20211202T083653_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_20211202T084601_20211202T085354_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_20211202T102419_20211202T103542_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_20211202T120532_20211202T121317_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_20211202T134428_20211202T135010_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_20211202T152344_20211202T153035_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_20211202T170208_20211202T170726_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_20211202T184016_20211202T185024_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_20211202T201804_20211202T202539_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_20211202T203456_20211202T203654_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_20211202T215548_20211202T220343_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_20211202T220343_20211202T220507_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_20211202T233606_20211202T234243_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_20211202T234243_20211202T234536_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211202T053901_20211202T061221_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.

1

> 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_20211201T235522_20211202T001803_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20211202T001813_20211202T002435_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Rang Altimeter Range and Backscatter Quality set for one or more records.	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211202T002547_20211202T002549_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range a for one or more records.	nd Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20211202T002558_20211202T002646_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range a for one or more records.	nd Backscatter Quality Flags have been set
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211202T012031_20211202T012224_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range a for one or more records.	nd Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20211202T012509_20211202T012702_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range a for one or more records.	nd Backscatter Quality Flags have been set
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211202T021427_20211202T021842_C001 OCOG Altimeter Range Quality, OCOG Actimeter Range a for one or more records.	nd Backscatter Quality Flags have been set
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211202T025916_20211202T030140_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range a for one or more records.	nd Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20211202T030210_20211202T030633_C001 OCOG Altimeter Range Quality, OCOG for one or more records.	nd Backscatter Quality Flags have been set
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211202T043703_20211202T044545_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range a for one or more records.	nd Backscatter Quality Flags have been set
	SSHA, SWH and Backscatter Quality Flags ge and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211202T051118_20211202T051144_C001 OCOG Altimeter Range Quality, OCOG for one or more records.	nd Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20211202T052311_20211202T052412_C001 OCOG Altimeter Range Quality, OCOG for one or more records.	nd Backscatter Quality Flags have been set

CS_OFFL_SIR_IOPM_2_20211202T053901_20211202T061221_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_20211202T061910_20211202T062340_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_20211202T062826_20211202T065210_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_20211202T065430_20211202T065441_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_20211202T072501_20211202T075018_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_20211202T075827_20211202T080419_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_20211202T080741_20211202T082651_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_20211202T082716_20211202T083251_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_20211202T084212_20211202T084303_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_20211202T085650_20211202T093023_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_20211202T093735_20211202T094251_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_20211202T102019_20211202T102419_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_20211202T103542_20211202T104541_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_20211202T104827_20211202T110944_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_20211202T111744_20211202T112152_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_20211202T112715_20211202T113658_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_20211202T113846_20211202T114602_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_20211202T120036_20211202T120100_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_20211202T121358_20211202T124836_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_20211202T125117_20211202T125636_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_20211202T125656_20211202T125939_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_20211202T130737_20211202T133749_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_20211202T133923_20211202T134334_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_20211202T135525_20211202T135636_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_20211202T135742_20211202T135750_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_20211202T135844_20211202T141100_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_20211202T141304_20211202T142815_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_20211202T143034_20211202T143535_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_20211202T143542_20211202T143549_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_20211202T144453_20211202T145515_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_20211202T150135_20211202T151742_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_20211202T154842_20211202T155037_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_20211202T155303_20211202T160645_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_20211202T160949_20211202T161447_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_20211202T161454_20211202T161506_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_20211202T162229_20211202T165559_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_20211202T172304_20211202T174428_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_20211202T174438_20211202T174528_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_20211202T175034_20211202T175404_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_20211202T175427_20211202T175755_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_20211202T180124_20211202T182653_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_20211202T182656_20211202T182855_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_20211202T190114_20211202T192452_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_20211202T192818_20211202T193319_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_20211202T193326_20211202T193654_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_20211202T194148_20211202T201440_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_20211202T202725_20211202T202928_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_20211202T204025_20211202T204130_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_20211202T210007_20211202T210327_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_20211202T210817_20211202T211352_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_20211202T212118_20211202T215347_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_20211202T220648_20211202T220801_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_20211202T222625_20211202T224158_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_20211202T224740_20211202T225248_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_20211202T225947_20211202T233444_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_20211202T234536_20211202T234713_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_20211202T235728_20211203T000148_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_20211202T012224_20211202T012509_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_0FFL_SIR_IOPN_2_20211202T112152_20211202T112317_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_20211202T135816_20211202T135844_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_20211202T192647_20211202T192818_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_20211202T021151_20211202T021305_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_20211202T025325_20211202T025329_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_20211202T034022_20211202T034031_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_20211202T095528_20211202T095544_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_20211202T125649_20211202T125656_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_20211202T211710_20211202T212118_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.

L2 Quality Flags (20Hz PLRM)

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

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

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

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umber of proc	icts with error	rs:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20211202T003433_20211202T003500_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_20211202T011756_20211202T012031_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_20211202T012224_20211202T012509_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_20211202T034734_20211202T034832_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_20211202T035237_20211202T035448_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_20211202T035600_20211202T035829_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_20211202T040028_20211202T040150_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_20211202T040900_20211202T041022_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_20211202T051225_20211202T051535_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_20211202T053151_20211202T053638_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_20211202T070402_20211202T070437_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_20211202T075433_20211202T075827_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_20211202T084044_20211202T084141_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_20211202T085354_20211202T085454_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_20211202T085535_20211202T085648_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_20211202T100513_20211202T100557_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_20211202T101514_20211202T101702_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_20211202T101856_20211202T102019_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_20211202T111202_20211202T111616_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_20211202T112152_20211202T112317_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_20211202T115942_20211202T120031_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_20211202T120128_20211202T120532_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_20211202T133749_20211202T133923_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_20211202T134334_20211202T134428_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_20211202T135816_20211202T135844_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_20211202T143737_20211202T143956_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_20211202T151742_20211202T152040_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_20211202T160750_20211202T160949_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_20211202T165814_20211202T170208_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_20211202T170726_20211202T170759_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_20211202T171703_20211202T171813_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_20211202T171902_20211202T172228_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_20211202T174803_20211202T175034_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_20211202T193654_20211202T193829_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_SR_JOPN_2_20211202T201440_20211202T201616_C001 OCOG Altineter Range Quality PLMM. COGG Baskaster Quality The OCOG Range and Backaster Quality Flags have been set from records. CS_OFFL_SIR_JOPN_2_20211202T22450_20211202T224250_C001 OCOG Altineter Range Quality PLMM. CGCG Backaster Quality The OCOG Range and Backaster Quality PLMM. CS_OFFL_SIR_JOPN_2_20211202T204518_20211202T224740_C001 One minister Range, SSNA, SWH and Backaster Quality PLMM. CGCG Altineter Range and Backaster Quality PLMM. The OCOG Range and Backaster Quality PLMM. The OCOG Altineter Range, SSNA, SWH and Backaster Quality PLMM. CS_OFFL_SIR_JOPR_2_20211202T002821_00211202T003800_C001 One and Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOG Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range, SSNA, SWH and Backaster Quality PLMM. The OCOGN Altineter Range and Backaster Quality PLMM. The OCOGN Altineter Ran	
CS_OFFL_SIR_UOPR_2_202110217224619_02211227722470_0001 OCOG Basksatter Quilty more records. CS_OFFL_SIR_UOPR_2_202110217224619_02211227722470_0001 Ocean Allmeter Range, SSHA, SWH and Basksatter Quilty FLIM, OCOG Allmeter Range, SSHA, SWH and Basksatter Quilty FLIM, OCOG Allmeter Range, SSHA, SWH and Basksatter Quilty FLIM The Ocean Allmeter Range, SSHA, SWH and Basksatter Quilty FLIM CS_OFFL_SIR_UOPR_2_202112027003308_0202112027003308_0001 Chean Allmeter Range, SSHA, SWH and Basksatter Quilty FLIM The Ocean Allmeter Range, SSHA, SWH and Basksatter Quilty FLIM <td>n set for one or</td>	n set for one or
CS_OFFL_SIR_IOPR_2_202112027224619_202122272440_0001 and Backscatter Quality PLM, OCCO The standminume Prange, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027002821_202112027003308_0001 Decent Planteer Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027003308_202112027003308_0001 Decent Planteer Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027003308_202112027003433_C001 Decent Planteer Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027003500_202112027003601_C001 Decent Planteer Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027003500_202112027003601_C001 Decent Planteer Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211202701156_C001 Decent Planteer Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027013561_202112027013555_C001 Decent Planteer Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027023322_C001100 OCCOG Altimeter Range Quality PLNA, OCCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202112027023322_202112027023322_C0011 OCCOG Altimeter Range Quality PLNA, OC	
CS_OFFL_SIR_IOPR_2_20211202T002821_20211202T003308_C001 and Backscatter Quality PLRN, QCOG Altimeter Range and Backscatter Quality PLRN, QCOG Altimeter Range and Backscatter Quality PLRN, QCOG Altimeter Range and Backscatter Quality PLRN, QCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRN, CS_OFFL_SIR_JOPR_2_20211202T015501_20211202T013555_C001 The QCOB Altimeter Range, SSHA, SWH and Backscatter Quality Altimeter Range and Backscatter Quality PLRN, QCOG Backscatter Quality PLRN, QCOG Altimeter Range Quality PLRN, QCOG Backscatter Quality PLRN, QCOG Backscatter Quality PLRN, QCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The QCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_JOPR_2_20211202T02352_20211202T023719_C001 QCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRN, QCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRN, QCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRN, QCOG Altimeter Range, S	
GS_OFFL_SIR_IOPR_2_20211202T003438_02211202T003433_C001 and Backscatter Quality PLRM, COCO Attimeter Range and Backscatter Quality PLRM ind CoCo Attimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211202T003500_20211202T003601_C001 Qcean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCO Attimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and DoCO Attimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211202T011057_20211202T011756_C001 Qcean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCO Attimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211202T013501_20211202T013555_C001 Qcean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCO Galimeter Range and Backscatter Quality PLRM The OCOG Range and Backscatter Quality FLRM CS_OFFL_SIR_IOPR_2_20211202T023338_20211202T023527_C001 OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T023525_20211202T023744_C001 OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T023525_20211202T023525_20211202T023525_20211202T023525_20211202T023525_20211202T023525_20211202T023525_20211202T035257_C001 OCCGG Altimeter Range Quality PLRM, OCCG Galimeter	
CS_OFFL_SIR_IOPR_2_20211202T003500_20211202T003501_C001 and Backscatter Quality PLRM. OCG The Ocean Altimeter Range and Backscatter Quality Flags has after one or more records. CS_OFFL_SIR_IOPR_2_20211202T011057_20211202T011756_C001 Altimeter Range and Backscatter Quality PLRM. OCG and Mitmeter Range and Backscatter Quality PLRM. OCG Altimeter Range and Backscatter Quality PLRM. CS_OFFL_SIR_IOPR_2_20211202T023338_20211202T023527_C001 OCGG Altimeter Range Quality PLRM. OCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211202T023522_20211202T023719_C001 OCGG Altimeter Range Quality PLRM. OCGG Backscatter Quality Flags. No. OCG Altimeter Range Quality PLRM. The OCGG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211202T023522_20211202T023724_C001 OCGG Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCGG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211202T03525_02011 OCGG Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_IOPR_2_20211202T011057_20211202T011756_C001 and Backscatter Quality PLM, OCCG Allimeter Range and Backscatter Quality PLRM, OCCG and the OCCG Altimeter Range and Backscatter Quality PLRM, OCCG CS_OFFL_SIR_IOPR_2_20211202T013501_20211202T013555_C001 Occean Allimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211202T023338_20211202T023527_C001 OCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_IOPR_2_20211202T023338_20211202T023527_C001 OCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_IOPR_2_20211202T023532_20211202T023719_C001 OCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_IOPR_2_20211202T023722_20211202T023744_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T023325_20211202T023744_C001 OCCG Altimeter Range, Quality PLRM, OCCG CS_OFFL_SIR_IOPR_2_20211202T023325_20211202T025329_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T023325_20211202T025329_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T036812_20211202T03683_C001 Occean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T036812_20211202T03653_C001 Occean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f more records.	
CS_OFFL_SIR_IOPR_2_20211202T013501_20211202T013555_C001 and Backscatter Quality PLRM, OCOG Interfer Range and Backscatter Quality Flags have been set f CS_OFFL_SIR_IOPR_2_20211202T023338_20211202T023527_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f CS_OFFL_SIR_IOPR_2_20211202T023532_20211202T023527_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f CS_OFFL_SIR_IOPR_2_20211202T023722_20211202T023744_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f CS_OFFL_SIR_IOPR_2_20211202T023722_20211202T023724_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f The OCOG Range and Backscatter Quality Flags have been set f CS_OFFL_SIR_IOPR_2_20211202T025325_20211202T025329_C001 OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211202T030812_20211202T03653_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. <tr< td=""><td></td></tr<>	
CS_OFFL_SIR_IOPR_2_202112021023336_202112021023327_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPR_2_20211202T023532_20211202T023719_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T023722_20211202T023744_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f or one or more records. CS_OFFL_SIR_IOPR_2_20211202T030812_20211202T030853_C001 OCOG Altimeter Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T034920_20211202T035237_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set f or one or more records. CS_OFFL_SIR_IOPR_2_2	
CS_OFFL_SIR_IOPR_2_202112021023532_202112021023749_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPR_2_20211202T023722_20211202T023744_C001 OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T025325_20211202T025329_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 PLRM. CS_OFFL_SIR_IOPR_2_20211202T030812_20211202T030853_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T035237_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Range and Backscatter Quality Flags have been set	n set for one or
CS_OFFL_SIR_IOPR_2_202112021023722_202112021023744_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPR_2_20211202T025325_20211202T025329_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211202T030812_20211202T030853_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags has et for one or more records. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211202T034920_20211202T035237_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Back	n set for one or
CS_OFFL_SIR_IOPR_2_20211202T025325_20211202T025329_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211202T030812_20211202T030853_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211202T030853_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T034920_20211202T035237_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T051032_20211202T051118_C001 OCCGA Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCCG Range and Backscatter Quality Flags have been set f more records.	n set for one or
CS_OFFL_SIR_IOPR_2_20211202T030812_20211202T030853_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T034636_20211202T034734_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set f more records. CS_OFFL_SIR_IOPR_2_20211202T034920_20211202T035237_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The OCCG Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211202T051032_20211202T035237_C001 Ocean Altimeter Range and Backscatter Quality PLRM The OCCG Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211202T051032_20211202T051118_C001 OCCG Altimeter Range Quality PLRM, PLRM The OCCG Range and Backscatter Quality Flags have been set f	
CS_OFFL_SIR_IOPR_2_202112021034636_202112021034734_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPR_2_20211202T034920_20211202T035237_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211202T051032_20211202T051118_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_IOPR_2_20211202T034920_20211202T035237_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set f	n set for one or
	n set for one or
CS_OFFL_SIR_IOPR_2_20211202T052412_20211202T052449_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COG Backscatter Quality Code B	n set for one or
CS_OFFL_SIR_IOPR_2_20211202T052449_20211202T053151_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM. PLRM	
CS_OFFL_SIR_IOPR_2_20211202T061221_20211202T061458_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags ha pLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.	
CS_OFFL_SIR_IOPR_2_20211202T062601_20211202T062826_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 ha set for one or more records.	
CS_OFFL_SIR_IOPR_2_20211202T070651_20211202T071219_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 has been been been been been been been bee	
CS_OFFL_SIR_IOPR_2_20211202T075018_20211202T075433_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatte	
CS_OFFL_SIR_IOPR_2_20211202T080545_20211202T080741_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range and Backscatter Quality Flags has been on the ocean Altimeter Range and Backscatter Quality PLRM.	
CS_OFFL_SIR_IOPR_2_20211202T084601_20211202T085354_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 and the OCOG Altimeter Range and Backscatter Quality set for one or more records.	
CS_OFFL_SIR_IOPR_2_20211202T094400_20211202T094932_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 has been been been been been been been bee	Quality Flags
CS_OFFL_SIR_IOPR_2_20211202T095516_20211202T095526_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COCOG Backscatter QUAL QUAL QUAL QUAL QUAL QUAL QUAL QUAL	ags have been

CS_OFFL_SIR_IOPR_2_20211202T101212_20211202T101236_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_20211202T102419_20211202T103542_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_20211202T112317_20211202T112715_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_20211202T113658_20211202T113846_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_20211202T120031_20211202T120036_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_20211202T120532_20211202T121317_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_20211202T130124_20211202T130737_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_20211202T134428_20211202T135010_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_20211202T135027_20211202T135045_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_20211202T135058_20211202T135142_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_20211202T141100_20211202T141304_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_20211202T142815_20211202T142852_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_20211202T143956_20211202T144453_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_20211202T145922_20211202T150101_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_20211202T150101_20211202T150135_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_20211202T152344_20211202T153035_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_20211202T154417_20211202T154842_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_20211202T155037_20211202T155303_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_20211202T170208_20211202T170726_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_20211202T174528_20211202T174803_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_20211202T184016_20211202T185024_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_20211202T193829_20211202T194148_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_20211202T201623_20211202T201630_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_20211202T201804_20211202T202539_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_20211202T202928_20211202T203045_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_20211202T203456_20211202T203654_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_20211202T205638_20211202T210007_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPR_2_20211202T211710_20211202T212118_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_20211202T215548_20211202T220343_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_20211202T220343_20211202T220507_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_20211202T220921_20211202T221244_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPR_2_20211202T225559_20211202T225947_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_20211202T233534_20211202T233602_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPR_2_20211202T233606_20211202T234243_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_20211202T234243_20211202T234536_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 produc	to which are commercized below	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set f		
Number of products with errors: 193	or products over sea ice, which is to be expected	
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz me	easurement 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: 64		
L2 Retracking Flags (20Hz, PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PL	RM measurement record. The bit value of this fla	ag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag is currently set for produ	cts IOPR and IOPN products over sea ice, but the	is is to be expected.
Number of products with errors: 151		
6. IOP I	_2 Pole-to-Pole Data Quality	Check
6.1 P2P Product Format Check		
_		
Each product, retrieved and unpacked from the science server, is checked to	o ensure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).
Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0	o ensure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).
	o ensure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).
Number of products with errors: 0	` 	
Number of products with errors: 0 6.2 P2P Product Header Analysis	` 	
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH a Number of products with errors: 0	` 	
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH a Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check	nd SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH a 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 product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product product is checked for missing Data Set Descriptors with respect to a product prod	nd SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH a 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 p Number of products with errors: 0	nd SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH a 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 product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product product is checked for missing Data Set Descriptors with respect to a product prod	nd SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH a 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 p Number of products with errors: 0	nd SPH in order to identify any inconsistencies a pre-determined baseline and also to check the va	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH at 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 point of products with errors: 0 6.4 P2P Auxiliary Correction Error Check	Ind SPH in order to identify any inconsistencies a pre-determined baseline and also to check the va checked for the default error value (32767). the Level 2 products which are expected due	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH at 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 point of products with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are of Currently, there are some common auxiliary correction errors raised in	Ind SPH in order to identify any inconsistencies a pre-determined baseline and also to check the va checked for the default error value (32767). the Level 2 products which are expected due from this test.	and/or errors raised by the ground-segment processing chain. Alidity of Auxiliary Data Files is correct.

> 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.

30

> 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_2_20211201T234247_20211202T003226_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_220211202T003226_20211202T012201_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_220211202T012201_20211202T021140_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_220211202T021140_20211202T030116_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_220211202T030116_20211202T035055_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_220211202T035055_20211202T044030_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_220211202T044030_20211202T053010_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_220211202T053010_20211202T061945_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_220211202T061945_20211202T070925_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_220211202T070925_20211202T075900_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_220211202T075900_20211202T084839_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_220211202T084839_20211202T093815_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_220211202T093815_20211202T102754_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_220211202T102754_20211202T111729_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_220211202T111729_20211202T120709_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_220211202T120709_20211202T125644_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_220211202T125644_20211202T134623_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_220211202T134623_20211202T143559_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_220211202T143559_20211202T152538_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_220211202T152538_20211202T161513_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_220211202T161513_20211202T170453_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_220211202T170453_20211202T175428_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_220211202T175428_20211202T184407_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_220211202T184407_20211202T193343_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_220211202T193343_20211202T202322_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_220211202T202322_20211202T211258_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_220211202T211258_20211202T220237_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_220211202T220237_20211202T225212_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_220211202T225212_20211202T234152_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_220211202T234152_20211203T003127_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:
 1

Product	Test Failed	Description	
CS_OFFL_SIR_IOP_220211202T053010_20211202T061945_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records	

6.6 P2P Measurement Quality	Flag Check
P2P Quality Flags (20Hz)	
CryoSat P2P data includes Quality Flags for	each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.
Since the P2P Quality Flags are copied di	rectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30
P2P Quality Flags (20Hz PLRM)	
Since the P2P Quality Flags are copied di	rectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	28
P2P Quality Flags (1 Hz & 1Hz PL	.RM)
Since the P2P Quality Flags are copied di	rectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30
6.8 P2P Ocean Retracking Qu	ality Check
P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retrack	ing quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): T	his flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.
Number of products with errors:	30
P2P Retracking Flags PLRM	
CryoSat L2 data includes an ocean retracking	g quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.
,	g quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set. his flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

7. IOP QCC Report Analysis

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

No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
196	196	3	193	0
128	106	3	103	0
106	128	0	128	0
196	196	144	52	0
128	106	41	65	0
106	128	49	74	5
29	29	0	25	4
	196 128 106 196 128 106	196 196 128 106 106 128 196 196 128 106 128 106 128 106 128 106 106 128	196 196 3 128 106 3 106 128 0 196 196 144 128 106 41 106 128 49	196 196 3 193 128 106 3 103 106 128 0 128 196 196 144 52 128 106 41 65 106 128 49 74

7.1 QCC Errors

Number of QCC reports with errors:

						Total number	of occurrences	of each error				
F	Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
	SIR_IOPR_2	5	1	5	5	1	5					
F	Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
	SIR_IOP_2_	4	4	4	4							

17

2212

Fest 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 number of occurrences of each warning						
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR_IOPM1B	193	0	0	0	0	0	0
SIR_IOPM_2	0	0	40	37	0	43	0
SIR_IOPN1B	102	0	0	0	0	0	0
SIR_IOPN_2	0	0	13	30	6	25	27
SIR_IOPR1B	123	0	0	0	0	0	0
SIR_IOPR_2	0	5	37	40	1	34	27
	÷		·				
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARN	CERPEPOPFDPLRMSINNC	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	39	1	33	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	18	0	0	0	14	0	30
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	12	0	0	46	0	51	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	27	0	0	8	30	0	8
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	20	20	40	54	28
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	45	0	4	63	39	16
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	36	0	3	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	43

1	SIR IOPN 2	28	29	13	1	1	2	0
	SIR_IOPR1B	0	0	0	0	0	0	128
	SIR_IOPR_2	41	46	2	0	0	6	0
	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCE	RBSZOPOEPNCDF
	SIR_IOP_2_	15	29	29	7	29	16	29
	Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
	SIR_IOP_2_	1	16	29	22	22	29	17
	Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
	SIR_IOP_2_	26	29	16	14	29		

Test Description Key:						
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	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 NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
	•	l contraction of the second se				

7.3 Missing QCC Reports

Number of products with missing QCC reports: 0