

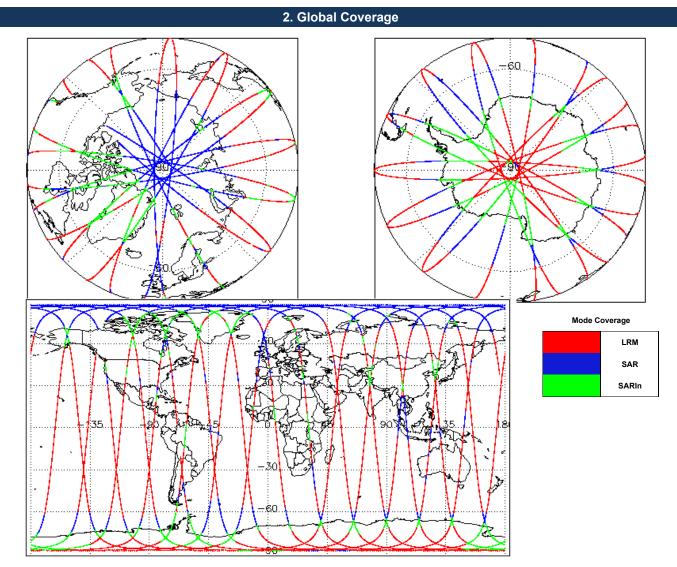
QA4EO Daily Report for GOP data:

20/07/2020

Demont Dreductions	20 4:17 2020	Check	L1 & L2	P2P
Report Production:	20-Aug-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used.		Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Oseu.	L1B, L2 & P2P Science Data	Product Header Analysis	See Sections 4.2 and 5.2	See Section 6.2
		Auxiliary Data File Usage Check	See Section 4.3 and 5.3	See Section 6.3
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2

1. Overview

I	Mission / Instrument News	
	19-Jul-2020	None
	20-Jul-2020	CRYO2ICE Orbit raising activities. SIRAL unavailability from 21:44:05 - 04:29:05
	21-Jul-2020	CRYO2ICE Orbit raising activities.



3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. GOP 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). Number of products with errors: 0

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.				
L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the 11b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.				
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-	determined baseline and also to ch	eck the validity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record	. The bit value of this flag indicates	any problems when set.		
Number of products with errors: 0	· · · · · · · · · · · · · · · · · · ·			
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurement				
Attitude Correction Missing: This flag is currently set in error for GOPR produ	icts due to a configuration issue. Th	is is being investigated and will be updated in the next SW update.		
Number of products with errors: 4				
Product	Test Failed	Description There is an error in the scaling of the L1B waveform for one or more		
CS_OFFL_SIR_GOPM1B_20200720T040444_20200720T040950_C001	Power scaling error	records		
CS_OFFL_SIR_GOPM1B_20200720T052258_20200720T052843_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
CS_OFFL_SIR_GOPM1B_20200720T070001_20200720T070355_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
CS_OFFL_SIR_GOPM1B_20200720T095840_20200720T100025_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.	-	any problems when set.		
Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected. Number of products with errors: 17				
Number of products with errors: 17				
Product	Test Failed	Description		
	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records		
Product		· · ·		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001	Loss of Echo	The tracking echo is missing for one or more records		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T162237_20200720T163149_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001 CS_OFFL_SIR_GOPN1B_20200720T015523_20200720T015934_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001 CS_OFFL_SIR_GOPN1B_20200720T015523_20200720T015934_C001 CS_OFFL_SIR_GOPN1B_20200720T01055315_20200720T015934_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
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Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001 CS_OFFL_SIR_GOPN1B_20200720T015523_20200720T015934_C001 CS_OFFL_SIR_GOPN1B_20200720T01055315_20200720T015934_C001 CS_OFFL_SIR_GOPN1B_20200720T0065315_20200720T100418_C001 CS_OFFL_SIR_GOPN1B_20200720T100330_20200720T100418_C001 CS_OFFL_SIR_GOPN1B_20200720T101646_20200720T101826_C001 CS_OFFL_SIR_GOPN1B_20200720T1016466_20200720T1004182_C001 CS_OFFL_SIR_GOPN1B_20200720T150541_20200720T150543_C001 CS_OFFL_SIR_GOPN1B_20200720T155827_20200720T160442_C001 CS_OFFL_SIR_GOPN1B_20200720T164019_20200720T164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T0164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T0164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T053900_C001 CS_OFFL_SIR_GOPR1B_20200720T05324_20200720T05519_C001 CS_OFFL_SIR_GOPR1B_20200720T105132_20200720T105519_C001 CS_OFFL_SIR_GOPR1B_20200720T113733_20200720T113839_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001 CS_OFFL_SIR_GOPN1B_20200720T015523_20200720T015934_C001 CS_OFFL_SIR_GOPN1B_20200720T0105315_20200720T065753_C001 CS_OFFL_SIR_GOPN1B_20200720T100330_20200720T100418_C001 CS_OFFL_SIR_GOPN1B_20200720T1010466_20200720T101826_C001 CS_OFFL_SIR_GOPN1B_20200720T101646_20200720T101826_C001 CS_OFFL_SIR_GOPN1B_20200720T1050413_20200720T150353_C001 CS_OFFL_SIR_GOPN1B_20200720T150541_20200720T150541_C001 CS_OFFL_SIR_GOPN1B_20200720T165827_20200720T160442_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T0164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T053900_C001 CS_OFFL_SIR_GOPR1B_20200720T105324_20200720T095416_C001 CS_OFFL_SIR_GOPR1B_20200720T105132_20200720T105519_C001 CS_OFFL_SIR_GOPR1B_20200720T105324_20200720T1333_0201	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T0162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001 CS_OFFL_SIR_GOPN1B_20200720T015523_20200720T015934_C001 CS_OFFL_SIR_GOPN1B_20200720T01055315_20200720T0055753_C001 CS_OFFL_SIR_GOPN1B_20200720T100330_20200720T100418_C001 CS_OFFL_SIR_GOPN1B_20200720T1010466_20200720T1010418_C001 CS_OFFL_SIR_GOPN1B_20200720T1010646_20200720T1010426_C001 CS_OFFL_SIR_GOPN1B_20200720T1010413_20200720T150353_C001 CS_OFFL_SIR_GOPN1B_20200720T150503_20200720T150541_C001 CS_OFFL_SIR_GOPN1B_20200720T155827_20200720T160442_C001 CS_OFFL_SIR_GOPN1B_20200720T164019_20200720T164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T0164432_C001 CS_OFFL_SIR_GOPN1B_20200720T0105329_20200720T053900_C001 CS_OFFL_SIR_GOPR1B_20200720T105132_20200720T05519_C001 CS_OFFL_SIR_GOPR1B_20200720T105132_20200720T105519_C001 CS_OFFL_SIR_GOPR1B_20200720T113733_20200720T113839_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T0162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001 CS_OFFL_SIR_GOPN1B_20200720T015523_20200720T015934_C001 CS_OFFL_SIR_GOPN1B_20200720T0165315_20200720T065753_C001 CS_OFFL_SIR_GOPN1B_20200720T100330_20200720T100418_C001 CS_OFFL_SIR_GOPN1B_20200720T101646_20200720T101826_C001 CS_OFFL_SIR_GOPN1B_20200720T145956_20200720T150353_C001 CS_OFFL_SIR_GOPN1B_20200720T150413_20200720T150453_C001 CS_OFFL_SIR_GOPN1B_20200720T150503_20200720T150541_C001 CS_OFFL_SIR_GOPN1B_20200720T150532_20200720T160442_C001 CS_OFFL_SIR_GOPN1B_20200720T164019_20200720T164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T164432_C001 CS_OFFL_SIR_GOPN1B_20200720T005324_20200720T05519_C001 CS_OFFL_SIR_GOPR1B_20200720T105132_20200720T105519_C001 CS_OFFL_SIR_GOPR1B_20200720T113733_20200720T113839_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
Product CS_OFFL_SIR_GOPM1B_20200720T100649_20200720T100655_C001 CS_OFFL_SIR_GOPM1B_20200720T0162237_20200720T163149_C001 CS_OFFL_SIR_GOPN1B_20200720T010424_20200720T010943_C001 CS_OFFL_SIR_GOPN1B_20200720T015523_20200720T015934_C001 CS_OFFL_SIR_GOPN1B_20200720T0105315_20200720T065753_C001 CS_OFFL_SIR_GOPN1B_20200720T100330_20200720T100418_C001 CS_OFFL_SIR_GOPN1B_20200720T100330_20200720T101826_C001 CS_OFFL_SIR_GOPN1B_20200720T101646_20200720T100418_C001 CS_OFFL_SIR_GOPN1B_20200720T1050413_20200720T150533_C001 CS_OFFL_SIR_GOPN1B_20200720T150503_20200720T150541_C001 CS_OFFL_SIR_GOPN1B_20200720T155827_20200720T160442_C001 CS_OFFL_SIR_GOPN1B_20200720T164019_20200720T164432_C001 CS_OFFL_SIR_GOPN1B_20200720T164149_20200720T063900_C001 CS_OFFL_SIR_GOPN1B_20200720T095324_20200720T095416_C001 CS_OFFL_SIR_GOPR1B_20200720T105132_20200720T105519_C001 CS_OFFL_SIR_GOPR1B_20200720T105324_20200720T13839_C001 CS_OFFL_SIR_GOPR1B_20200720T113733_20200720T113839_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

 Number of products with errors:
 0

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).

0

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.

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200720T064418_20200720T064439_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20200720T064439_20200720T064449_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T005906_20200720T010206_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T010424_20200720T010943_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T015523_20200720T015934_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200720T023900_20200720T024135_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T033414_20200720T033438_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T033441_20200720T033528_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T033713_20200720T033944_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	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_GOPN_2_20200720T041401_20200720T041959_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T051338_20200720T051430_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T055616_20200720T055807_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T065315_20200720T065753_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T073555_20200720T073732_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T091544_20200720T091931_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T095417_20200720T095615_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T105519_20200720T105835_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T110348_20200720T110510_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T114614_20200720T114701_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T124257_20200720T124404_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T132511_20200720T132629_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T145956_20200720T150353_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T150503_20200720T150541_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T155827_20200720T160442_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T164149_20200720T164432_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T173743_20200720T174106_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) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T181904_20200720T182253_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T191847_20200720T192001_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPN_2_20200720T195105_20200720T195303_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T205750_20200720T205911_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200720T213544_20200720T213707_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T000804_20200720T001517_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T001517_20200720T001733_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T014945_20200720T015412_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T015412_20200720T015522_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T032735_20200720T033127_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T033127_20200720T033414_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T044426_20200720T044853_C001	Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20200720T050731_20200720T051337_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T064901_20200720T065315_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T082645_20200720T083358_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T100655_20200720T101443_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T114701_20200720T115513_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T132629_20200720T133358_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T150541_20200720T151101_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T164432_20200720T164536_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T164536_20200720T165146_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T182254_20200720T182810_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T195946_20200720T200842_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200720T213913_20200720T214406_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) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200720T040444_20200720T040950_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20200720T052258_20200720T052843_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20200720T070001_20200720T070355_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20200720T095840_20200720T100025_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

82

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200719T235446_20200720T000804_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_GOPM_2_20200720T001733_20200720T001943_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_GOPM_2_20200720T003524_20200720T005448_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_GOPM_2_20200720T011154_20200720T014759_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_GOPM_2_20200720T015953_20200720T021907_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_GOPM_2_20200720T021936_20200720T023239_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_GOPM_2_20200720T024135_20200720T024332_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_GOPM_2_20200720T024508_20200720T024835_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_GOPM_2_20200720T025100_20200720T030557_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_GOPM_2_20200720T030800_20200720T031721_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_GOPM_2_20200720T033528_20200720T033712_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_GOPM_2_20200720T033944_20200720T035637_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_GOPM_2_20200720T041302_20200720T041401_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_GOPM_2_20200720T041959_20200720T042255_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_GOPM_2_20200720T043032_20200720T044426_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_GOPM_2_20200720T050316_20200720T050342_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_GOPM_2_20200720T052258_20200720T052843_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_GOPM_2_20200720T053128_20200720T055435_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_GOPM_2_20200720T055807_20200720T060636_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_GOPM_2_20200720T061002_20200720T063443_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_GOPM_2_20200720T061002_20200720T063443_C001 CS_OFFL_SIR_GOPM_2_20200720T070646_20200720T073331_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200720T070646_20200720T073331_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_GOPM_2_20200720T070646_20200720T073331_C001 CS_OFFL_SIR_GOPM_2_20200720T074019_20200720T074436_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200720T070646_20200720T073331_C001 CS_OFFL_SIR_GOPM_2_20200720T074019_20200720T074436_C001 CS_OFFL_SIR_GOPM_2_20200720T074925_20200720T081456_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200720T070646_20200720T073331_C001 CS_OFFL_SIR_GOPM_2_20200720T074019_20200720T074436_C001 CS_OFFL_SIR_GOPM_2_20200720T074925_20200720T081456_C001 CS_OFFL_SIR_GOPM_2_20200720T081458_20200720T081747_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200720T070646_20200720T073331_C001 CS_OFFL_SIR_GOPM_2_20200720T074019_20200720T074436_C001 CS_OFFL_SIR_GOPM_2_20200720T074925_20200720T081456_C001 CS_OFFL_SIR_GOPM_2_20200720T081458_20200720T081747_C001 CS_OFFL_SIR_GOPM_2_20200720T082048_20200720T082645_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The 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_GOPM_2_20200720T092817_20200720T093257_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_GOPM_2_20200720T101826_20200720T105132_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_GOPM_2_20200720T105835_20200720T110348_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_GOPM_2_20200720T110825_20200720T112512_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_GOPM_2_20200720T115514_20200720T122544_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_GOPM_2_20200720T122554_20200720T123029_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_GOPM_2_20200720T123842_20200720T124257_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_GOPM_2_20200720T124744_20200720T131224_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_GOPM_2_20200720T131355_20200720T132055_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_GOPM_2_20200720T132055_20200720T132141_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_GOPM_2_20200720T133358_20200720T133941_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_GOPM_2_20200720T134030_20200720T134934_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_GOPM_2_20200720T135250_20200720T135515_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_GOPM_2_20200720T135518_20200720T140217_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_GOPM_2_20200720T140333_20200720T140942_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_GOPM_2_20200720T141740_20200720T141746_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_GOPM_2_20200720T142845_20200720T143925_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_GOPM_2_20200720T143931_20200720T144109_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_GOPM_2_20200720T144248_20200720T145139_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_GOPM_2_20200720T145306_20200720T145956_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_GOPM_2_20200720T152202_20200720T153208_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_GOPM_2_20200720T153411_20200720T153649_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_GOPM_2_20200720T153716_20200720T154135_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_GOPM_2_20200720T154244_20200720T154841_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_GOPM_2_20200720T155138_20200720T155633_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_GOPM_2_20200720T155709_20200720T155827_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_GOPM_2_20200720T160536_20200720T160841_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_GOPM_2_20200720T162237_20200720T163149_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_GOPM_2_20200720T163221_20200720T163534_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_GOPM_2_20200720T165715_20200720T165729_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_GOPM_2_20200720T170404_20200720T170512_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_GOPM_2_20200720T171254_20200720T172738_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_GOPM_2_20200720T173117_20200720T173601_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_GOPM_2_20200720T173623_20200720T173743_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_GOPM_2_20200720T174326_20200720T180914_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_GOPM_2_20200720T184214_20200720T190644_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_GOPM_2_20200720T191521_20200720T191846_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_GOPM_2_20200720T192217_20200720T194845_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_GOPM_2_20200720T201031_20200720T201714_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_GOPM_2_20200720T201725_20200720T204622_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_GOPM_2_20200720T204930_20200720T205415_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_GOPM_2_20200720T210234_20200720T213544_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_GOPN_2_20200720T042737_20200720T042921_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_GOPN_2_20200720T045720_20200720T045725_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_GOPN_2_20200720T094208_20200720T094542_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_GOPN_2_20200720T110348_20200720T110510_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_GOPN_2_20200720T170235_20200720T170404_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_GOPN_2_20200720T173616_20200720T173623_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_GOPN_2_20200720T191515_20200720T191521_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_GOPN_2_20200720T191847_20200720T192001_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_GOPR_2_20200720T002843_20200720T002956_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_GOPR_2_20200720T021908_20200720T021936_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_GOPR_2_20200720T023239_20200720T023900_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.
	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200720T064901_20200720T065315_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

Number of products with errors: 75

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200720T010424_20200720T010943_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_GOPN_2_20200720T015523_20200720T015934_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_GOPN_2_20200720T023900_20200720T024135_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_GOPN_2_20200720T033441_20200720T033528_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_GOPN_2_20200720T033713_20200720T033944_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_GOPN_2_20200720T035638_20200720T040038_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_GOPN_2_20200720T040047_20200720T040118_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_GOPN_2_20200720T041201_20200720T041301_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_GOPN_2_20200720T041401_20200720T041959_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_GOPN_2_20200720T042737_20200720T042921_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_GOPN_2_20200720T051630_20200720T051818_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_GOPN_2_20200720T051834_20200720T051908_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_GOPN_2_20200720T052132_20200720T052254_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_GOPN_2_20200720T055616_20200720T055807_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_GOPN_2_20200720T063443_20200720T063823_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_GOPN_2_20200720T065315_20200720T065753_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_GOPN_2_20200720T065839_20200720T070001_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_GOPN_2_20200720T070355_20200720T070600_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_GOPN_2_20200720T074436_20200720T074727_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_GOPN_2_20200720T091544_20200720T091931_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.

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20200720T092517_20200720T092631_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200720T094208_20200720T094542_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_GOPN_2_20200720T094559_20200720T094737_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_GOPN_2_20200720T105519_20200720T105835_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_GOPN_2_20200720T112512_20200720T112809_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_GOPN_2_20200720T123234_20200720T123636_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_GOPN_2_20200720T132511_20200720T132629_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_GOPN_2_20200720T142004_20200720T142148_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_GOPN_2_20200720T145956_20200720T150353_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_GOPN_2_20200720T151836_20200720T152202_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_GOPN_2_20200720T155827_20200720T160442_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_GOPN_2_20200720T163534_20200720T163657_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_GOPN_2_20200720T164149_20200720T164432_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_GOPN_2_20200720T181654_20200720T181817_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_GOPN_2_20200720T181904_20200720T182253_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_GOPN_2_20200720T183807_20200720T183936_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_GOPN_2_20200720T191501_20200720T191505_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_GOPN_2_20200720T200842_20200720T200903_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_GOPN_2_20200720T204806_20200720T204930_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_GOPN_2_20200720T205750_20200720T205911_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_GOPN_2_20200720T213745_20200720T213913_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_GOPR_2_20200720T000804_20200720T001517_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_GOPR_2_20200720T001517_20200720T001733_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_GOPR_2_20200720T001943_20200720T002708_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_GOPR_2_20200720T005449_20200720T005906_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_GOPR_2_20200720T010943_20200720T011154_C001	Ocean Attimeter 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_GOPR_2_20200720T014800_20200720T014850_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_GOPR_2_20200720T014945_20200720T015412_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_GOPR_2_20200720T023239_20200720T023900_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_GOPR_2_20200720T025008_20200720T025100_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_GOPR_2_20200720T044853_20200720T045316_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_GOPR_2_20200720T060833_20200720T061002_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_GOPR_2_20200720T064450_20200720T064719_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_GOPR_2_20200720T105132_20200720T105519_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_GOPR_2_20200720T110511_20200720T110825_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_GOPR_2_20200720T113733_20200720T113839_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_GOPR_2_20200720T113839_20200720T114325_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_GOPR_2_20200720T123029_20200720T123234_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_GOPR_2_20200720T124404_20200720T124744_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_GOPR_2_20200720T132629_20200720T133358_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_GOPR_2_20200720T142148_20200720T142845_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_GOPR_2_20200720T144110_20200720T144248_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_GOPR_2_20200720T151128_20200720T151307_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_GOPR_2_20200720T155634_20200720T155637_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_GOPR_2_20200720T155645_20200720T155651_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_GOPR_2_20200720T160442_20200720T160536_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_GOPR_2_20200720T160841_20200720T161052_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_GOPR_2_20200720T163736_20200720T163917_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_GOPR_2_20200720T164536_20200720T165146_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_GOPR_2_20200720T170513_20200720T171254_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_GOPR_2_20200720T180914_20200720T181045_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_GOPR_2_20200720T182836_20200720T183108_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_GOPR_2_20200720T192001_20200720T192217_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_GOPR_2_20200720T195946_20200720T200842_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_GOPR_2_20200720T205911_20200720T210206_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.				
L2 Quality Flags (1 Hz & 1Hz PLRM)						
Currently, there are several common flags raised in the Level 2 products, wh	nich are summarised below.					
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for pro						
Number of products with errors: 182						
5.8 L2 Ocean Retracking Quality Check						
L2 Retracking Flags (20Hz)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measure	ement 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 a	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: 55						
12 Potracking Flags (20Hz DI PM)						
L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM m	passurement record. The hit value of this fla	na indicatos any problems when set				
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products Go	OPR and GOPN products over sea ice, but	this is to be expected.				
Number of products with errors: 143						
6. GOP L2 I	Pole-to-Pole Data Quality	/ Check				
6.1 P2P Product Format Check						
Each product, retrieved and unpacked from the science server, is checked to ensu	ure it consists of both an XML header file (.)	HDR) and a NetCDF product file (.nc).				
Number of products with errors: 0						
6.2 P2P Product Header Analysis						
For all products, a series of pre-defined checks are performed on the MPH and SF	PH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.				
Number of products with errors: 0						
6.3 P2P Auxiliary Data File Usage Check						
Each product is checked for missing Data Set Descriptors with respect to a pre-de	termined baseline and also to check the va	alidity of Auxiliary Data Files is correct.				
Number of products with errors: 0						
6.4 P2P Auxiliary Correction Error Check						
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).						
Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.						
> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.						
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.						
> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.						
Number of products with errors: 27						
Product	Test Failed	Description				
CS_OFFL_SIR_GOP_220200719T232436_20200720T001413_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) for one or more records				
CS_OFFL_SIR_GOP_2_20200720T001413_20200720T010350_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) for one or more records				

Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide

Ocean Tide There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2_20200720T024303_20200720T033241_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records Topography (1), Total Geocentric Ocear Tide (GOT) CS_OFFL_SIR_GOP_2_20200720T033241_20200720T042217_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200720T042217_20200720T051154_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2_20200720T051154_20200720T060131_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOP_2__20200720T060131_20200720T065108_C001 Topography (1)

CS_OFFL_SIR_GOP_2_20200720T015327_20200720T024303_C001

CS_OFFL_SIR_GOP_2_20200720T065108_20200720T074045_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) for one or more records
CS_OFFL_SIR_GOP_220200720T074045_20200720T083022_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) for one or more records
CS_OFFL_SIR_GOP_220200720T083022_20200720T091958_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) for one or more records
CS_OFFL_SIR_GOP_220200720T091958_20200720T100936_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) for one or more records
CS_OFFL_SIR_GOP_220200720T100936_20200720T105912_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) for one or more records
CS_OFFL_SIR_GOP_220200720T105912_20200720T114849_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) for one or more records
CS_OFFL_SIR_GOP_220200720T114849_20200720T123826_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) for one or more records
CS_OFFL_SIR_GOP_220200720T123826_20200720T132803_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) for one or more records
CS_OFFL_SIR_GOP_220200720T132803_20200720T141739_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) for one or more records
CS_OFFL_SIR_GOP_220200720T141739_20200720T150717_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) for one or more records
CS_OFFL_SIR_GOP_220200720T150717_20200720T155653_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) for one or more records
CS_OFFL_SIR_GOP_220200720T155653_20200720T164630_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) for one or more records
CS_OFFL_SIR_GOP_220200720T164630_20200720T173607_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) for one or more records
CS_OFFL_SIR_GOP_220200720T173607_20200720T182544_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) for one or more records
CS_OFFL_SIR_GOP_220200720T182544_20200720T191521_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) for one or more records
CS_OFFL_SIR_GOP_220200720T191521_20200720T200458_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) for one or more records
CS_OFFL_SIR_GOP_220200720T200458_20200720T205434_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) for one or more records
CS_OFFL_SIR_GOP_220200720T205434_20200720T214411_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

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: 4					
Product	Test Failed	Description			
CS_OFFL_SIR_GOP_220200720T033241_20200720T042217_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records			
CS_OFFL_SIR_GOP_2_20200720T051154_20200720T060131_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records			
CS_OFFL_SIR_GOP_2_20200720T065108_20200720T074045_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records			
CS_OFFL_SIR_GOP_2_20200720T091958_20200720T100936_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records			

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors:	27	
P2P Quality Flags (20Hz PLRM)		
Since the P2P Quality Flags are copied dire	octly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	26	
P2P Quality Flags (1 Hz & 1Hz PL	RM)	
Since the P2P Quality Flags are copied dire	octly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	27	
6.8 P2P Ocean Retracking Qua	lity Check	
6.8 P2P Ocean Retracking Qua P2P Retracking Flags (20Hz)	lity Check	
P2P Retracking Flags (20Hz)	lity Check g quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.	
P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retrackin		
P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retrackin	g quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.	_

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

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

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7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	139	139	4	135	0
SIR_GOPR1B	101	101	0	101	0
SIR_GOPN1B	99	99	2	97	0
SIR_GOPM_2	139	139	94	45	0
SIR_GOPR_2	101	101	25	76	0
SIR_GOPN_2	99	99	38	61	0
SIR_GOP_P2P	26	26	0	26	0

7.1 QCC Errors

F RSSHAONCDF

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC reports with warnings

Number of QCC repo	ge internationality of the second						
Product Type	BCSHNCDF	MVIOEPFDNCDF	I otal num	hber of occurrences of e MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF
SIR GOPM1B	135	0	0	0	0	0	0
SIR GOPM 2	0	33	37	0	30	0	27
	94	0	0	0	0	0	0
SIR_GOPN1B	0	9	-	0	-		20
SIR_GOPN_2		-	35	4	23	26	
SIR_GOPR1B	99	0	0	0	0	0	0
SIR_GOPR_2	0	33	43	0	34	28	19
Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCI	DIRPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	28	0	0	0	0	24	0
SIR GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	34	0	38	0	0
SIR GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	43	0	50	0	0	44
SIN_GOFN_2	0	45	0	50	U	0	44
Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNC
SIR GOPM1B	0	0	0	0	0	0	0
SIR GOPM 2	0	4	23	0	6	25	0
SIR GOPN1B	0	0	0	0	0	0	0
SIR GOPN 2	34	15	37	50	32	27	30
SIR GOPR1B	0	0	0	0	0	0	0
-		1			11	37	49
SIR_GOPR_2	0	1	59	48	11	37	49
Product Type	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR GOPM1B	0	1	0	0	0		
SIR_GOPM_2	2	1	0	0	0		
SIR GOPN1B	0	0	0	45	1		
-		•	1	0	0		
SIR_GOPN_2	14	0	1		-		
SIR_GOPR1B	0	0	0	101	3		
SIR_GOPR_2	4	0	2	0	0		
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR GOP 2	IOHHMOOR 12	MVIOEPFDNCDF 26	MVIOEPNCDF 26	MVIONCDF 3	RBSZOPOEPFDNCDF 26	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF 26
				3			
		26					
SIR_GOP_2_	12	26	26	3	26	16	26
SIR_GOP_2_ Product Type SIR_GOP_2_	12 RPEPOPFDPLRMSINNCDI 15	26 RPEPOPFDSINNCDF 26	26 RPEPOPSINNCDF 25	3 RSSBCONCDF 16	26 RSSHAOFDNCDF	16 RSSHAOFDPLRMNCDF	26 RSSHAONCDF
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type Product Type	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF	26 RSSHAOFDNCDF	16 RSSHAOFDPLRMNCDF	26 RSSHAONCDF
SIR_GOP_2_ Product Type SIR_GOP_2_	12 RPEPOPFDPLRMSINNCDI 15	26 RPEPOPFDSINNCDF 26	26 RPEPOPSINNCDF 25	3 RSSBCONCDF 16	26 RSSHAOFDNCDF	16 RSSHAOFDPLRMNCDF	26 RSSHAONCDF
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ SIR_GOP_2_	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF	26 RSSHAOFDNCDF	16 RSSHAOFDPLRMNCDF	26 RSSHAONCDF
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type Product Type	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF	26 RSSHAOFDNCDF	16 RSSHAOFDPLRMNCDF	26 RSSHAONCDF
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details	26 RSSHAOFDNCDF	16 RSSHAOFDPLRMNCDF 16 -	26 RSSHAONCDF
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 : Test name BurstCounterStep20HzNetC	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 CDF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b	26 RSSHAOFDNCDF 26 e one higher with regard to t	16 RSSHAOFDPLRMNCDF 16 - he previous burst counter	26 RSSHAONCDF 22 -
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Test name	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 CDF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b	26 RSSHAOFDNCDF 26 e one higher with regard to t	16 RSSHAOFDPLRMNCDF 16 -	26 RSSHAONCDF 22 -
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 : Test name BurstCounterStep20HzNetC	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 CDF ddingPolarFD2NetCDF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a '	26 RSSHAOFDNCDF 26	16 RSSHAOFDPLRMNCDF 16 - he previous burst counter	26 RSSHAONCDF 22
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF MVIOEPFDNCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Empty State of the second se	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 CDF IdingPolarFD2NetCDF IdingPolarNetCDF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a ¹ The value should not be a ¹	26 RSSHAOFDNCDF 26	16 RSSHAOFDPLRMNCDF 16 -	26 RSSHAONCDF 22
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF MVIONCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Emergence Test name BurstCounterStep20HzNetC MissingValueIntOceanExclu MissingValueIntOceanExclu MissingValueIntOceanExclu	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 DF IdingPolarFD2NetCDF IdingPolarNetCDF DF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF 16	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a The value should not be a The value should not be a	26 RSSHAOFDNCDF 26 e one higher with regard to t missing value' for surface ty missing value' for surface ty missing value' for surface ty	16 RSSHAOFDPLRMNCDF 16 -	26 RSSHAONCDF 22
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Email: Test name BurstCounterStep20HzNetC MissingValueIntOceanExclu	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 DF rdingPolarFD2NetCDF rdingPolarNetCDF DF roOPOceanExcludingPolarF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF 16 D2NetCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a '	26 RSSHAOFDNCDF 26 e one higher with regard to t missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 an se	16 RSSHAOFDPLRMNCDF 16 16 -	26 RSSHAONCDF 22
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Email: Test name BurstCounterStep20HzNetC MissingValueIntOceanExclu	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 DF IdingPolarFD2NetCDF IdingPolarNetCDF DF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF 16 D2NetCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a ' The backscatter sigma zere between -70 and 70 degree The backscatter sigma zere	26 RSSHAOFDNCDF 26 e one higher with regard to t missing value' for surface ty missing value' for surface ty missing value' for surface ty b should be between 700 an should be between 700 an should be between 700 an	16 RSSHAOFDPLRMNCDF 16 16 -	26 RSSHAONCDF 22
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Test name BurstCounterStep20HzNetC MissingValueIntOceanExclu	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 DF rdingPolarFD2NetCDF rdingPolarNetCDF DF roOPOceanExcludingPolarF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF 16 D2NetCDF D2PLRMNetCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a ' The backscatter sigma zerr between -70 and 70 degree The backscatter sigma zerr between -70 and 70 degree The backscatter sigma zerr	26 RSSHAOFDNCDF 26 e one higher with regard to t missing value' for surface ty missing value' for surface ty p should be between 700 an s s should be between 700 an s s should be between 700 an s	16 RSSHAOFDPLRMNCDF 16 16 -	26 RSSHAONCDF 22
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIONCDF RBSZOPOEPFDPLRM NCDF RBSZOPOEPFDPLRM	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Test name BurstCounterStep20HzNetC MissingValueIntOceanExclu MissingValueIntOceanNetC RangeBackscatterSigmaZet RangeBackscatterSigmaZet RangeBackscatterSigmaZet	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 CDF idingPolarFD2NetCDF idingPolarNetCDF DF roOPOceanExcludingPolarF roOPOceanExcludingPolarF roOPOceanExcludingPolarF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF 16 D2NetCDF D2PLRMNetCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a ' The backscatter sigma zerre between -70 and 70 degree The backscatter sigma zerre The backscatter sigma zerre between -70 and 70 degree The backscatter sigma zerre The backscatter sigma zerre	26 RSSHAOFDNCDF 26 e one higher with regard to t missing value' for surface ty missing value' for surface ty missing value' for surface ty b should be between 700 an s b	16 RSSHAOFDPLRMNCDF 16	26 RSSHAONCDF 22
SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPFDCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF	12 RPEPOPFDPLRMSINNCDI 15 RSWHOEPFDNCDF 26 Test name BurstCounterStep20HzNetC MissingValueIntOceanExclu RangeBackscatterSigmaZet RangePeakinessExcludingF	26 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDF 16 CDF tdingPolarFD2NetCDF tdingPolarNetCDF DF roOPOceanExcludingPolarF roOPOceanExcludingPolarF roOPOceanExcludingPolarF roOPOceanExcludingPolarF roOPOceanExcludingPolarF	26 RPEPOPSINNCDF 25 RSWHOEPNCDF 16 D2NetCDF D2PLRMNetCDF etCDF	3 RSSBCONCDF 16 SPHLPQWNCDF 26 Details The burst counter should b The value should not be a The backscatter sigma zerr between -70 and 70 degree The backscatter sigma zerr between -70 and 70 de	26 RSSHAOFDNCDF 26 e one higher with regard to t missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 an so o should be between 700 an so so	16 RSSHAOFDPLRMNCDF 16 r 16 16 16 16 16 16 16	26 RSSHAONCDF 22 n -70 and 70 degrees n -70 and 70 degrees e type = ocean for latitudes e type = ocean for latitudes for latitudes between -70
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The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean RangeSeaSurfaceHeightAnomalyOceanNetCDF

RSWHOEPFDNCDF		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0