

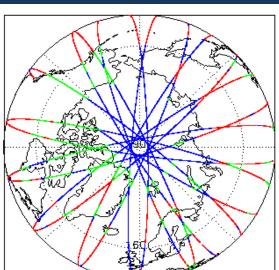
QA4EO Daily Report for GOP data:

<u>11/02/2021</u>

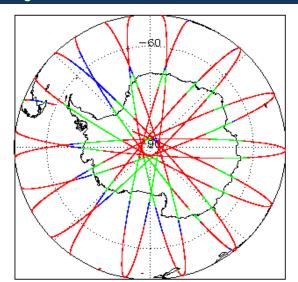
on out Duo du otion :	40 Mar 0004	Check	L1 & L2	P2P
Report Production:	12-Mar-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
	0.010.0	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal	
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.

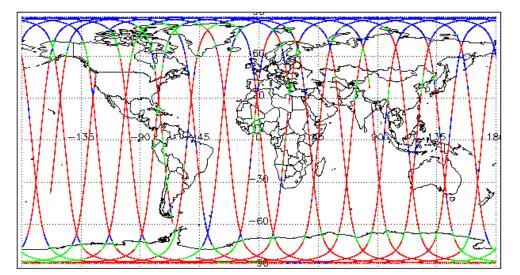
1. Overview

Mission / Instrument News		
10-Feb-2021	None	
11-Feb-2021	None	
12-Feb-2021	Nothing planned	













3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

4. 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:

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.					
LIB 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:	Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Che	ck				
Each product is checked for missing Data Set Descripto	rs 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				
4.4 L1B Auxiliary Correction Error Ch	eck				
CryoSat L1B data includes a correction error flag for ea		as hit value of this flag indicates any proble	ome when set		
Number of products with errors:	0	te bit value of this hay indicates any proble			
4.5 L1B Measurement Confidence Da	ta Check				
CryoSat L1B data includes a measurement confidence	-	-			
		due to a configuration issue. This is being	g investigated and will be updated in the next SW update.		
Number of products with errors:	0				
4.6 L1B Waveform Group Data Check					
CryoSat L1B data includes a waveform data flag for eac	h measurement record. Th	e bit value of this flag indicates any proble	ems when set.		
Loss of Echo Flag: This flag is currently set for some p	products over land, but this	is to be expected.			
Number of products with errors:	14				
Product		Test Failed	Description		
CS_OFFL_SIR_GOPM1B_20210211T014009_202102		Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210211T000006_2021021		Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210211T015153_2021021		Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210211T024841_202102		Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210211T050907_2021021		Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210211T101449_202102 CS_OFFL_SIR_GOPN1B_20210211T120517_202102		Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210211120317_202102 CS_OFFL_SIR_GOPN1B_202102111233157_202102	_	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		
CS_OFFL_SIR_GOPR1B_20210211T014148_202102		Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR GOPR1B 20210211T034153 202102		Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210211T042736_202102	_	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210211T053905_2021021	11T054043_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210211T092559_2021027	11T092704_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210211T175940_202102	I1T180119_C001	Loss of Echo	The tracking echo is missing for one or more records		
	5 COP	Level 2 Data Quality Ch	ook		
	5. GOP		ecn		
5.1 L2 Product Format Check					
Each product, retrieved and unpacked from the science	server, is checked to ensu	re it consists of both an XML header file (.	HDR) and a binary product file (.DBL).		
Number of products with errors:	0				
5.2 L2 Product Header Analysis					
For all products, a series of pre-defined checks are perf	ormed on the MPH and SP	H in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.		
Number of products with errors:	0				
5.3 L2 Auxiliary Data File Usage Check					
			I dife of Anniliant Data Film in some st		
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 Geo	physical Group are checke	d for the default error value (32767).			
Currently, there are some common auxiliary correct followed by a table highlighting any additional issue			e to surface type. All common flags are summarised in the list below,		
> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.					
> Sea State Bias & Sea State Bias PLRM: The error v	alue is currently set for pro	ducts over sea ice, but this is to be expect	led.		
> 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: 54					
Product		Test Failed	Description		
		Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic		

CS_OFFL_SIR_GOPM_2_20210211T195934_20210211T200039_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_GOPN_2_20210211T010105_20210211T010425_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_20210211T010938_20210211T011103_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_20210211T015153_20210211T015308_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_20210211T024841_20210211T024950_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_20210211T033110_20210211T033221_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_20210211T042545_20210211T042736_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_20210211T050907_20210211T051136_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_20210211T064551_20210211T065019_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_20210211T073449_20210211T073736_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_20210211T082455_20210211T082842_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc 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_20210211T100007_20210211T100535_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_20210211T124038_20210211T124345_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_20210211T141338_20210211T141625_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_20210211T141939_20210211T142315_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_20210211T155417_20210211T155652_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_20210211T164927_20210211T165048_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_20210211T172951_20210211T173536_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_20210211T182359_20210211T182452_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_20210211T182859_20210211T183109_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_20210211T191143_20210211T191322_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_20210211T192208_20210211T192418_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_20210211T200813_20210211T201259_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_20210211T223055_20210211T223449_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc 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_GOPR_2_20210211T001242_20210211T002031_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_20210211T014453_20210211T015153_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210211T015308_20210211T020030_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_20210211T033221_20210211T033934_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_20210211T051136_20210211T051822_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_20210211T065019_20210211T065739_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_GOPR_2_20210211T082842_20210211T083725_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_20210211T100535_20210211T101313_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_20210211T114508_20210211T115133_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_20210211T115133_20210211T115440_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_20210211T132314_20210211T133033_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_20210211T133033_20210211T133211_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_20210211T150444_20210211T150931_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_20210211T150931_20210211T151052_C001	Mean Sea Surface (1), 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_20210211T164244_20210211T164815_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_20210211T164815_20210211T164927_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_20210211T182452_20210211T182542_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_20210211T182542_20210211T182859_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_20210211T200108_20210211T200813_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_20210211T214312_20210211T214842_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_20210211T231132_20210211T231312_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210211T232223_20210211T233014_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:
0

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.

84

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210211T000954_20210211T001132_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_20210211T002454_20210211T005910_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_20210211T010425_20210211T010938_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_20210211T011118_20210211T013123_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_20210211T020302_20210211T022430_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_20210211T022540_20210211T023658_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_20210211T024127_20210211T024425_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_20210211T024443_20210211T024841_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_20210211T025037_20210211T031946_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_20210211T032001_20210211T032706_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_20210211T034036_20210211T034108_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_20210211T034606_20210211T035403_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_20210211T035844_20210211T041625_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_20210211T042344_20210211T042545_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_20210211T043418_20210211T044704_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_20210211T044918_20210211T050105_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_20210211T052838_20210211T053809_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_20210211T054044_20210211T055546_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_20210211T055732_20210211T060237_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_20210211T060244_20210211T060255_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_20210211T061109_20210211T061206_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_20210211T062852_20210211T063257_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_20210211T063420_20210211T064125_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_20210211T071339_20210211T071518_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_20210211T071725_20210211T073449_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_20210211T073736_20210211T074154_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_20210211T074756_20210211T081156_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_20210211T084835_20210211T091432_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_20210211T091546_20210211T092109_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_20210211T092704_20210211T095518_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_20210211T095629_20210211T100007_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_20210211T102527_20210211T104719_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_20210211T104728_20210211T105405_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_20210211T105539_20210211T110349_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_20210211T110615_20210211T114121_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_20210211T120614_20210211T120738_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_20210211T122455_20210211T123340_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_20210211T123519_20210211T124038_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_20210211T124606_20210211T130851_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_20210211T131137_20210211T132057_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_20210211T133307_20210211T133710_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_20210211T135258_20210211T135742_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_20210211T135929_20210211T141249_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_20210211T142535_20210211T143131_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_20210211T143141_20210211T145327_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_20210211T145436_20210211T145735_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_20210211T151452_20210211T151515_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_20210211T151600_20210211T152259_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_20210211T152319_20210211T154717_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_20210211T160125_20210211T160327_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_20210211T160518_20210211T161104_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_20210211T162206_20210211T162311_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_20210211T162523_20210211T163322_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_20210211T164215_20210211T164243_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_20210211T170008_20210211T170957_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_20210211T171811_20210211T172951_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_20210211T173831_20210211T174255_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_20210211T174434_20210211T175940_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_20210211T180119_20210211T181214_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_20210211T184156_20210211T184520_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_20210211T184642_20210211T185140_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_20210211T185352_20210211T191051_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_20210211T191322_20210211T192208_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_20210211T192422_20210211T194649_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_20210211T201259_20210211T201400_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_20210211T202359_20210211T205011_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_20210211T205532_20210211T210001_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_20210211T210243_20210211T212837_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_20210211T215726_20210211T215956_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_20210211T220121_20210211T222935_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_20210211T223449_20210211T224040_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_20210211T224206_20210211T230112_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_20210211T230340_20210211T230751_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_20210211T230758_20210211T230800_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_20210211T233311_20210212T000816_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_20210211T000255_20210211T000306_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_20210211T002314_20210211T002441_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_20210211T084432_20210211T084835_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_20210211T120517_20210211T120547_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_20210211T035403_20210211T035844_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_20210211T051136_20210211T051822_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_20210211T132057_20210211T132302_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_20210211T145735_20210211T150111_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_20210211T163323_20210211T163441_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS OFFE SIR GOPN 2 202102111002031 202102111002210 C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPN_2_20210211T002314_20210211T002441_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_20210211T010105_20210211T010425_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_20210211T010938_20210211T011103_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_20210211T013123_20210211T013441_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_20210211T024841_20210211T024950_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_20210211T041625_20210211T041806_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_20210211T052501_20210211T052838_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_20210211T055546_20210211T055732_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_20210211T062253_20210211T062832_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_20210211T073449_20210211T073736_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_20210211T082455_20210211T082842_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_20210211T084432_20210211T084835_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_20210211T100007_20210211T100535_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_20210211T105415_20210211T105539_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_20210211T114121_20210211T114254_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_20210211T114334_20210211T114508_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_20210211T141939_20210211T142315_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_20210211T151210_20210211T151306_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_20210211T155417_20210211T155652_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_20210211T160409_20210211T160511_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_20210211T165458_20210211T165612_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_20210211T171705_20210211T171811_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_20210211T172951_20210211T173536_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_20210211T182359_20210211T182452_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_20210211T183218_20210211T183447_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_20210211T185140_20210211T185351_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_20210211T191143_20210211T191322_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_20210211T200813_20210211T201259_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_20210211T205119_20210211T205245_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_20210211T205430_20210211T205532_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_20210211T210001_20210211T210223_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_20210211T214258_20210211T214312_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_20210211T223055_20210211T223449_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_20210211T224040_20210211T224206_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_20210211T231640_20210211T231803_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_20210211T232156_20210211T232223_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_20210211T233157_20210211T233311_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_20210210T235931_20210211T000006_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_20210211T000535_20210211T000852_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_20210211T013935_20210211T014009_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_20210211T014148_20210211T014453_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_20210211T015308_20210211T020030_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_20210211T020109_20210211T020301_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_20210211T033221_20210211T033934_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_20210211T034153_20210211T034606_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_20210211T042736_20210211T043353_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_20210211T044704_20210211T044918_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_20210211T051136_20210211T051822_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_20210211T061252_20210211T061426_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_20210211T061438_20210211T061509_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_20210211T064538_20210211T064551_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_20210211T065019_20210211T065739_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_20210211T082842_20210211T083725_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_20210211T092559_20210211T092704_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_20210211T100535_20210211T101313_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_20210211T114255_20210211T114334_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_20210211T114508_20210211T115133_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_20210211T115133_20210211T115440_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_20210211T124345_20210211T124606_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_20210211T132057_20210211T132302_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_20210211T132314_20210211T133033_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_20210211T133033_20210211T133211_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_20210211T133710_20210211T134044_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_20210211T134340_20210211T134427_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_20210211T145735_20210211T150111_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_20210211T150310_20210211T150429_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_20210211T150444_20210211T150931_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_20210211T151306_20210211T151452_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_20210211T155053_20210211T155417_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_20210211T164244_20210211T164815_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_20210211T164815_20210211T164927_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_20210211T170957_20210211T171405_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_20210211T182542_20210211T182859_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_20210211T183110_20210211T183218_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_20210211T183447_20210211T183533_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_20210211T200039_20210211T200108_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_20210211T200108_20210211T200813_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_20210211T213856_20210211T214027_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_GOPR_2_20210211T214312_20210211T214842_C001	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_20210211T231132_20210211T231312_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_20210211T231804_20210211T231841_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_20210211T232032_20210211T232129_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_20210211T232223_20210211T233014_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_20210211T233111_20210211T233156_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products, w	hich are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for pro-	oducts over sea ice, which is to be expected	l.
Number of products with errors: 207		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measur	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	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: 66		
L2 Retracking Flags (20Hz, PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM r	neasurement record. The bit value of this fla	ag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products G	OPR and GOPN products over sea ice, but	this is to be expected.
Number of products with errors: 157		
6 GOP 1 2	Pole-to-Pole Data Quality	/ Check
		- Check
6.1 P2P Product Format Check		
6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).
	ure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0	ure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0 6.2 P2P Product Header Analysis		
Each product, retrieved and unpacked from the science server, is checked to ens 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 S		
Each product, retrieved and unpacked from the science server, is checked to ens 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 S Number of products with errors: 0		
Each product, retrieved and unpacked from the science server, is checked to ens 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 S		
Each product, retrieved and unpacked from the science server, is checked to ens 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 S Number of products with errors: 0	PH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the science server, is checked to ens 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 S 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-defined	PH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the science server, is checked to ensign the science server server server, is checked to ensign the science server server server, is checked to ensign the science server serv	PH in order to identify any inconsistencies a etermined baseline and also to check the va	and/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the science server, is checked to ensign the science server server, is checked to ensign the science server server server server, is checked to ensign the science server se	PH in order to identify any inconsistencies a stermined baseline and also to check the va ed for the default error value (32767). Level 2 products which are expected due	and/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the science server, is checked to enson Number of products with errors:	PH in order to identify any inconsistencies a etermined baseline and also to check the va ed for the default error value (32767). Level 2 products which are expected due this test.	and/or errors raised by the ground-segment processing chain. Alidity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the science server, is checked to ensign of products with errors:	PH in order to identify any inconsistencies a etermined baseline and also to check the va ed for the default error value (32767). Level 2 products which are expected due this test. ted over CONTINENTAL ICE: Dry Troposp ector. This is a known anomaly (CRYO-CC	and/or errors raised by the ground-segment processing chain. Alidity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the science server, is checked to ensign 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 S 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 Number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are some common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from > ECMWF Meteo Corrections: Currently the following corrections are not compu Correction and the U-Wind and V-Wind components of the ECMWF model wind v not reported in the table below.	PH in order to identify any inconsistencies a stermined baseline and also to check the va ed for the default error value (32767). .evel 2 products which are expected due this test. ted over CONTINENTAL ICE: Dry Troposp ector. This is a known anomaly (CRYO-CC pducts over sea ice, but this is to be expect	and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. a to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed.
Each product, retrieved and unpacked from the science server, is checked to ensigned and the products with errors: 0 6.2 P2P Product Header Analysis 0 For all products, a series of pre-defined checks are performed on the MPH and S 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-defined reference on the MPH and S Number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are some common auxiliary correction errors raised in the if followed by a table highlighting any additional issues which may arise from the Set Set Set Bias PLRM: The error value is currently set for product in the table below.	PH in order to identify any inconsistencies a stermined baseline and also to check the va ed for the default error value (32767). .evel 2 products which are expected due this test. ted over CONTINENTAL ICE: Dry Troposp ector. This is a known anomaly (CRYO-CC pducts over sea ice, but this is to be expect	and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. a to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed.
Each product, retrieved and unpacked from the science server, is checked to ens 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 S 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-defined reference on the MPH and S Number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are some common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from > ECMWF Meteo Corrections: Currently the following corrections are not comput Correction and the U-Wind and V-Wind components of the ECMWF model wind value to reproted in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over the order of products over the error value is currently set for products over the products over the error value is currently set for products over the error value is currently set for products over the error value is currently set for products over the error value is currently set for products over the error value is currently set for products over the error value is currently set for products over the products over the error value is currently set for products over the error value is currently set for products over the error value is currently set for products over the error value is cu	PH in order to identify any inconsistencies a stermined baseline and also to check the va ed for the default error value (32767). .evel 2 products which are expected due this test. ted over CONTINENTAL ICE: Dry Troposp ector. This is a known anomaly (CRYO-CC pducts over sea ice, but this is to be expect	and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. a to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed.
Each product, retrieved and unpacked from the science server, is checked to ensign of products with errors: 0 6.2 P2P Product Header Analysis	PH in order to identify any inconsistencies a etermined baseline and also to check the va- ed for the default error value (32767). Level 2 products which are expected due this test. ted over CONTINENTAL ICE: Dry Troposp rector. This is a known anomaly (CRYO-CC poducts over sea ice, but this is to be expected r land and sea ice, but this is to be expected	and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. e to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed. 1.
Each product, retrieved and unpacked from the science server, is checked to ensigned 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 S 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-defined reproducts with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are some common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from > ECMWF Meteo Corrections: Currently the following corrections are not computed on the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products with errors: 30 Product 30	PH in order to identify any inconsistencies a etermined baseline and also to check the va- ed for the default error value (32767). Level 2 products which are expected due this test. ted over CONTINENTAL ICE: Dry Troposp fector. This is a known anomaly (CRYO-CC oducts over sea ice, but this is to be expecter r land and sea ice, but this is to be expecter Test Failed Mean Sea Surface (1), Mean Dynamic	and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. alidity of Auxiliary Data Files is correct. alidity of Auxiliary Data Files is correct. a to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed. d. Description There is an error with the MSS height (solution 1) and the Mean Dynamic
Each product, retrieved and unpacked from the science server, is checked to ensign 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 S 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-defined reproducts with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are some common auxiliary correction errors raised in the ifollowed by a table highlighting any additional issues which may arise from > ECMWF Meteo Corrections: Currently the following corrections are not comput correction and the U-Wind and V-Wind components of the ECMWF model wind value to reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over Number of products with errors: 30 Product CS_OFFL_SIR_GOP_2_20210210T232544_20210211T001522_C002	PH in order to identify any inconsistencies a etermined baseline and also to check the va- ed for the default error value (32767). Level 2 products which are expected due this test. Ited over CONTINENTAL ICE: Dry Troposp ector. This is a known anomaly (CRYO-CC oducts over sea ice, but this is to be expecter r land and sea ice, but this is to be expecter r land and sea ice, but this is to be expecter Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. a to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ed. 1. Description There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic
Each product, retrieved and unpacked from the science server, is checked to ensign 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 S 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-defined checks are performed on the MPH and S Number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are some common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from some components of the ECMWF model wind variate from the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over Number of products with errors: 30 Product 30 Product CS_OFFL_SIR_GOP_2_20210211T001522_20210211T001522_C002 CS_OFFL_SIR_GOP_2_20210211T001522_20210211T010459_C001	PH in order to identify any inconsistencies a stermined baseline and also to check the va- ed for the default error value (32767). Level 2 products which are expected due this test. ted over CONTINENTAL ICE: Dry Troposp rector. This is a known anomaly (CRYO-CC oducts over sea ice, but this is to be expecter r land and sea ice, but this is to be expecter Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. alidity of Auxiliary Data Files is correct. alidity of Auxiliary Data Files is correct. a to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric (P-3) and will be resolved in a future IPF update. The affected products are ed. d. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic

CS_OFFL_SIR_GOP_2_20210211T033352_20210211T042328_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_20210211T042328_20210211T051306_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_20210211T051306_20210211T060242_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_20210211T060242_20210211T065221_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_GOP_2_20210211T065221_20210211T074157_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_GOP_2_20210211T074157_20210211T083136_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), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20210211T083136_20210211T092112_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_20210211T092112_20210211T101050_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_20210211T101050_20210211T110027_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_20210211T110027_20210211T115005_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_20210211T115005_20210211T123941_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_20210211T123941_20210211T132920_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_20210211T132920_20210211T141856_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_20210211T141856_20210211T150834_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_20210211T150834_20210211T155811_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_20210211T155811_20210211T164749_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_20210211T164749_20210211T173725_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_20210211T173725_20210211T182704_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_GOP_2_20210211T182704_20210211T191640_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_20210211T191640_20210211T200618_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_GOP_2_20210211T200618_20210211T205555_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_220210211T205555_20210211T214533_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_20210211T214533_20210211T223509_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), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20210211T223509_20210211T232448_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_20210211T232448_20210212T001424_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

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: 0 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: 30 P2P Quality Flags (20Hz PLRM) Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. Number of products with errors: 30 P2P Quality Flags (1 Hz & 1Hz PLRM) Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

30

30

7

2187

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

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	198	198	5	193	0
SIR_GOPR1B	133	133	0	133	0
SIR_GOPN1B	109	109	0	109	0
SIR_GOPM_2	198	198	137	61	0
SIR_GOPR_2	133	133	61	69	3
SIR_GOPN_2	109	109	41	68	0
SIR_GOP_P2P	29	29	0	25	4

7.1 QCC Errors

Number of QCC reports with errors:

	Total number of occurrences of each error										
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_GOPR_2	3	1	3	3	1	3					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR GOP 2	4	4	4	4							

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

7.2 QCC Warnings

Number of QCC reports with warnings

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRM
SIR GOPM1B	193	0	0	0	0	0	0
SIR GOPM 2	0	0	42	43	1	47	0
SIR GOPN1B	106	0	0	0	0	0	0
SIR GOPN 2	0	0	12	32	4	27	31
SIR_GOPR1B	129	0	0	0	0	0	0
SIR_GOPR_2	0	3	24	38	1	23	20
Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSAR	NCERPEPOPFDPLRMSINNO	DIRPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR GOPM 2	41	38	0	0	0	0	32
SIR GOPN1B	0	0	0	0	0	0	0
SIR GOPN 2	19	0	0	22	0	35	0
SIR GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	15	0	38	0	45	0	0
	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
Product Type				RSSHAUFDNCDF			
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	14	26	0	4	38
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	28	20	42	59	28	28
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	36	0	4	55	24	9	28
SIR_GOPR_2 Product Type	36 RSWHOEPFDPLRMNCDF	-	4 RWTCONCDF	55 SPHRTASCNSNCDF	24 SOOHHIFHD	9 SCSTODHRNCDF	28 SCSTODNCDF
		-				-	
Product Type	RSWHOEPFDPLRMNCDF	F RSWHOEPNCDF	RWTCONCDF		SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
Product Type SIR_GOPM1B	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF 0	RWTCONCDF		SOOHHIFHD 0	SCSTODHRNCDF 0	SCSTODNCDF
Product Type SIR_GOPM1B SIR_GOPM_2	RSWHOEPFDPLRMNCDF 0 0	RSWHOEPNCDF 0 3	RWTCONCDF 0 0		SOOHHIFHD 0 0	SCSTODHRNCDF 0 0	SCSTODNCDF 0 0
Product Type SIR_GOPM1B SIR_GOPM_2 SIR_GOPN1B	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF 0 3 0	RWTCONCDF 0 0 0		SOOHHIFHD 0 0	SCSTODHRNCDF 0 0 50	SCSTODNCDF 0 0 2
Product Type SIR_GOPM1B SIR_GOPM_2 SIR_GOPN1B SIR_GOPN_2	RSWHOEPFDPLRMNCDF 0 0 0 28	RSWHOEPNCDF 0 3 0 13	RWTCONCDF 0 0 0 1	SPHRTASCNSNCDF 0 0 0 1	SOOHHIFHD 0 0 0 1	SCSTODHRNCDF 0 0 50 0	SCSTODNCDF 0 0 2 0
Product Type SIR_GOPM1B SIR_GOPM_2 SIR_GOPN1B SIR_GOPN1B SIR_GOPR1B SIR_GOPR_2	RSWHOEPFDPLRMNCDF 0 0 0 28 0 36	RSWHOEPNCDF 0 3 0 13 0 2	RWTCONCDF 0 0 1 0 1	SPHRTASCNSNCDF 0 0 0 1 0 0	SOOHHIFHD 0 0 1 0 6	SCSTODHRNCDF 0 0 50 0 133 0	SCSTODNCDF 0 2 0 8 0
Product Type SIR_GOPM1B SIR_GOPM2 SIR_GOPN1B SIR_GOPR12 SIR_GOPR1B SIR_GOPR_2 Product Type	RSWHOEPFDPLRMNCDF 0 0 28 0 36	RSWHOEPNCDF 0 3 0 13 0 2	RWTCONCDF 0 0 1 0 1 0 1 WVIOEPNCDF	SPHRTASCNSNCDF 0 0 0 0 1 0 0 1 0 0 0 0 0	SOOHHIFHD 0 0 1 0 6 RBSZOPOEPFDNCDF	SCSTODHRNCDF 0 0 50 0 133 0	SCSTODNCDF 0 0 2 0 8 0 ERBSZOPOEPNCDF
Product Type SIR_GOPM1B SIR_GOPM_2 SIR_GOPN1B SIR_GOPN1B SIR_GOPR1B SIR_GOPR_2	RSWHOEPFDPLRMNCDF 0 0 0 28 0 36	RSWHOEPNCDF 0 3 0 13 0 2	RWTCONCDF 0 0 1 0 1	SPHRTASCNSNCDF 0 0 0 1 0 0	SOOHHIFHD 0 0 1 0 6	SCSTODHRNCDF 0 0 50 0 133 0	SCSTODNCDF 0 2 0 8 0
Product Type SIR_GOPM1B SIR_GOPN12 SIR_GOPN12 SIR_GOPN2 SIR_GOPN2 SIR_GOPR2 SIR_GOPR2 SIR_GOPR2 SIR_GOPR2 SIR_GOPR2	RSWHOEPFDPLRMNCDF 0 0 0 28 0 36 IOHHMOOR 14	RSWHOEPNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29	RWTCONCDF 0 0 1 0 1 0 1 29	SPHRTASCNSNCDF 0 0 0 1 0 0 0 6	SOOHHIFHD 0 0 1 0 6 RBSZOPOEPFDNCDF 29	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17	SCSTODNCDF 0 2 0 8 0 ERBSZOPOEPNCDF 29
Product Type SIR_GOPM1B SIR_GOPN2 SIR_GOPN1B SIR_GOPN2 SIR_GOPR2 SIR_GOPR2 Product Type SIR_GOP2_ Product Type	RSWHOEPFDPLRMNCDF 0 0 28 0 36 IOHHMOOR 14 RPEPOPFDPLRMSINNCCE	F RSWHOEPNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29 DRPEPOPFDSINNCDF 29	RWTCONCDF 0 0 0 1 0 1 MVIOEPNCDF 29 RPEPOPSINNCDF	SPHRTASCNSNCDF 0 0 0 0 1 0 0 0 0 0 0 0 0 RSSBCONCDF	SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	SCSTODNCDF 0 0 2 0 8 0 CRBSZOPOEPNCDF 29 RSSHAONCDF
Product Type SIR_GOPM1B SIR_GOPN12 SIR_GOPN12 SIR_GOPN2 SIR_GOPN2 SIR_GOPR2 SIR_GOPR2 SIR_GOPR2 SIR_GOPR2 SIR_GOPR2	RSWHOEPFDPLRMNCDF 0 0 0 28 0 36 IOHHMOOR 14	RSWHOEPNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29	RWTCONCDF 0 0 1 0 1 0 1 29	SPHRTASCNSNCDF 0 0 0 1 0 0 0 6	SOOHHIFHD 0 0 1 0 6 RBSZOPOEPFDNCDF 29	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17	SCSTODNCDF 0 2 0 8 0 ERBSZOPOEPNCDF 29
Product Type SIR_GOPM1B SIR_GOPN2 SIR_GOPN1B SIR_GOPN2 SIR_GOPR2 SIR_GOPR2 Product Type SIR_GOP2_ Product Type	RSWHOEPFDPLRMNCDF 0 0 0 0 28 0 36 IOHHMOOR 14 RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF	MUIOEPFDNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCD	RWTCONCDF 0 0 1 0 1 20	SPHRTASCNSNCDF 0 0 0 1 0 0 MVIONCDF 6 RSSBCONCDF	SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	SCSTODNCDF 0 2 0 8 0 CRBSZOPOEPNCDF 29 RSSHAONCDF
Product Type SIR_GOPM1B SIR_GOPM2 SIR_GOPN1B SIR_GOPN2 SIR_GOPN2 SIR_GOPR2 Product Type SIR_GOP_2_ Product Type SIR_GOP_2_	RSWHOEPFDPLRMNCDF 0 0 28 0 36 IOHHMOOR 14 RPEPOPFDPLRMSINNCE 16	Multiple Multiple Multi Multiple <td>RWTCONCDF 0 0 1 0 1 20</td> <td>SPHRTASCNSNCDF 0 0 1 0 0 MVIONCDF 6 RSSBCONCDF 21</td> <td>SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29</td> <td>SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF</td> <td>SCSTODNCDF 0 2 0 8 0 CRBSZOPOEPNCDF 29 RSSHAONCDF</td>	RWTCONCDF 0 0 1 0 1 20	SPHRTASCNSNCDF 0 0 1 0 0 MVIONCDF 6 RSSBCONCDF 21	SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	SCSTODNCDF 0 2 0 8 0 CRBSZOPOEPNCDF 29 RSSHAONCDF
Product Type SIR_GOPM1B SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPR2 Product Type SIR_GOP2_	RSWHOEPFDPLRMNCDF 0 0 0 0 0 36 IOHHMOOR 14 RPEPOPFDPLRMSINNCLI 16 RSWHOEPFDNCDF 29	MUIOEPFDNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCD	RWTCONCDF 0 0 0 1 0 1 0 29 RPEPOPSINNCDF 20 F RSWHOEPNCDF	SPHRTASCNSNCDF 0 0 1 0 0 MVIONCDF 6 RSSBCONCDF 21	SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	SCSTODNCDF 0 0 2 0 8 0 CRBSZOPOEPNCDF 29 RSSHAONCDF
Product Type SIR_GOPM1B SIR_GOPN12 SIR_GOPN12 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOP22 Product Type SIR_GOP2_ Product Type SIR_GOP2_	RSWHOEPFDPLRMNCDF 0 0 0 0 0 36 IOHHMOOR 14 RPEPOPFDPLRMSINNCLI 16 RSWHOEPFDNCDF 29	MUIOEPFDNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29 RPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCD	RWTCONCDF 0 0 0 1 0 1 0 29 RPEPOPSINNCDF 20 F RSWHOEPNCDF	SPHRTASCNSNCDF 0 0 1 0 0 MVIONCDF 6 RSSBCONCDF 21	SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	SCSTODNCDF 0 0 2 0 8 0 CRBSZOPOEPNCDF 29 RSSHAONCDF
Product Type SIR_GOPM1B SIR_GOPM2 SIR_GOPN1B SIR_GOPN2 SIR_GOPN2 SIR_GOP22 Product Type SIR_GOP2_ Product Type SIR_GOP2_ Product Type SIR_GOP2_ Product Type SIR_GOP2_ Product Type SIR_GOP2_	RSWHOEPFDPLRMNCDF 0 0 0 28 0 36 IOHHMOOR 14 RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF 29	MVIOEPFDNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29 PREPOPFDSINNCDF 26 RSWHOEPFDPLRMNCD 17	RWTCONCDF 0 0 0 1 0 1 0 29 RPEPOPSINNCDF 20 F RSWHOEPNCDF	SPHRTASCNSNCDF 0 0 0 1 0 0 8 RSSBCONCDF 21 RWTCONCDF 1 0	SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29 SPHLPQWNCDF	SCSTODHRNCDF 0 0 50 0 133 0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF 20	SCSTODNCDF 0 0 2 0 8 0 CRBSZOPOEPNCDF 29 RSSHAONCDF
Product Type SIR_GOPM1B SIR_GOPN12 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOP22 Product Type SIR_GOP2_ Product Type SIR_GOP2_ Product Type SIR_GOP2_ Product Type SIR_GOP2_ Product Type SIR_GOP2_	RSWHOEPFDPLRMNCDF 0 0 0 0 28 0 36 IOHHMOOR 14 RPEPOPFDPLRMSINNCE 16 RSWHOEPFDNCDF 29 Test name	MUIOEPFDNCDF 0 3 0 13 0 2 MVIOEPFDNCDF 29 DIRPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCD 17	RWTCONCDF 0 0 0 1 0 1 0 29 RPEPOPSINNCDF 20 F RSWHOEPNCDF	SPHRTASCNSNCDF 0 0 0 1 0 0 MVIONCDF 6 RSSBCONCDF 21 RWTCONCDF 1 Details The burst counter should	SOOHHIFHD 0 0 0 1 0 6 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29 SPHLPQWNCDF 29	SCSTODHRNCDF 0 0 0 1 0 1 1 0 0 1 1 3 0 0 1 RBSZOPOEPFDPLRMNCDF 2 0	SCSTODNCDF 0 0 2 0 8 0 2 2 0 8 0 28 RSSHAONCDF 24

MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RWTCONCDF	RangeWetTroposphericCorrectionOceanNetCDF	The Wet tropospheric correction should be between -500mm and -1mm (or missing) for surface type = ocean - NetCDF
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0