

QA4EO Daily Report for GOP data:

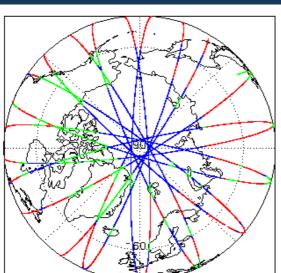
<u>22/12/2021</u>

IDEAS-QA4E0

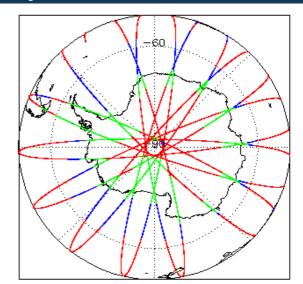
anart Braduction	21-Jan-2022	Check	L1 & L2	P2P
port Production:	21-Jan-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
rocessor Used:	CrueSet Occor Brosser	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
ocessor used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Oseu:	L1B, L2 & P2P Science Data	Product Header Analysis	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, 7.2 and 7.3

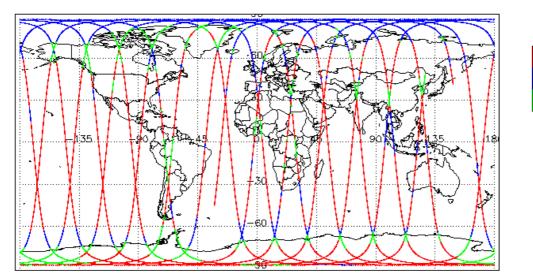
1. Overview

Mission / Instrument News		
21-Dec-2021	None	
22-Dec-2021	Due to Orbit Control Manoeuvre, SIRAL unavailability on 22/01/2022 from 11:48:01 UTC to 13:38:40 UTC	
23-Dec-2021	Nothing planned	













3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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 NetCDF product file (.nc).

4.2 L1B Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and	d SPH in order to identify any inc	consistencies and/or errors raised by the ground-segment processing chain.			
OSARIn chains. A modification is required in the next release.	L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the 11b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.				
Number of products with errors: 0					
4.3 L1B Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-	e-determined baseline and also	to check the validity of Auxiliary Data Files is correct.			
Number of products with errors: 0					
4.4 L1B Auxiliary Correction Error Check					
	d. The hit value of this flag india	ntee env probleme where est			
CryoSat L1B data includes a correction error flag for each measurement record Number of products with errors: 0		ates any problems when set.			
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag for each measurement	nent record. The bit value of this	flag indicates any problems when set.			
Attitude Correction Missing: This flag is currently set in error for GOPR prod	lucts due to a configuration issue	e. This is being 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 each measurement record	d. The bit value of this flag indica	ates any problems when set.			
Loss of Echo Flag: This flag is currently set for some products over land, but	-				
Number of products with errors: 18					
Product	Test Failed	Description			
CS_OFFL_SIR_GOPM1B_20211222T020259_20211222T021628_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20211222T082405_20211222T082539_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20211222T134238_20211222T135208_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20211222T144408_20211222T144800_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20211222T200822_20211222T201030_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20211222T224601_20211222T225132_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T001509_20211222T001931_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T015406_20211222T015518_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T015648_20211222T015911_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T023554_20211222T023941_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T033328_20211222T033551_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T141821_20211222T142434_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T150019_20211222T150426_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T201737_20211222T201944_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20211222T215100_20211222T215206_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20211222T095351_20211222T095454_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20211222T150426_20211222T151119_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20211222T191907_20211222T192239_C001	Loss of Echo	The tracking echo is missing for one or more records			
5. G(OP Level 2 Data Qu	ality Check			
5.1 L2 Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).					
Number of products with errors: 0					
5.2 L2 Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.					
Number of products with errors: 0					
5.3 L2 Auxiliary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0					
5.4 L2 Auxiliary Correction Error Check					
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).					
Currently, there are some common auxiliary correction errors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.					
> ECMWF Meteo Corrections: Currently the following corrections are not con	nputed over CONTINENTAL ICE	E: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric aly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are			

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20211222T011024_20211222T012545_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20211222T144408_20211222T144800_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_20211222T001509_20211222T001931_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20211222T005848_20211222T010123_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_20211222T015406_20211222T015518_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_20211222T015648_20211222T015911_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_20211222T023554_20211222T023941_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_20211222T033328_20211222T033551_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_20211222T033607_20211222T033752_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_20211222T041609_20211222T041759_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_20211222T042622_20211222T042834_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_20211222T050825_20211222T050855_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_20211222T051318_20211222T051749_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_20211222T055546_20211222T055724_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_20211222T065530_20211222T070025_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20211222T073542_20211222T073923_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_20211222T091511_20211222T091828_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_20211222T092341_20211222T092506_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_20211222T100603_20211222T100703_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_20211222T114510_20211222T114625_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_20211222T141821_20211222T142434_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_20211222T150019_20211222T150426_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_20211222T154902_20211222T155120_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_20211222T155749_20211222T160105_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_20211222T163900_20211222T164249_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_20211222T173844_20211222T173946_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_20211222T181342_20211222T181942_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_20211222T191750_20211222T191907_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_20211222T201737_20211222T201944_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_20211222T204754_20211222T204920_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_20211222T205442_20211222T205750_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_20211222T222737_20211222T222930_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_20211222T223342_20211222T223712_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_20211222T000936_20211222T001358_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_20211222T001358_20211222T001509_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_20211222T014734_20211222T015051_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_20211222T015052_20211222T015406_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_20211222T030450_20211222T031301_C001	Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20211222T032718_20211222T033328_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_20211222T050429_20211222T050708_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_GOPR_2_20211222T050855_20211222T051318_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_20211222T064611_20211222T065530_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_20211222T082649_20211222T083435_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_20211222T100704_20211222T101656_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_20211222T114625_20211222T114802_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_20211222T150426_20211222T151119_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_20211222T164249_20211222T165119_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_20211222T181942_20211222T182725_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_20211222T195916_20211222T200536_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_20211222T200536_20211222T200821_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_20211222T201231_20211222T201255_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_20211222T213518_20211222T214436_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_20211222T214436_20211222T214610_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_20211222T231701_20211222T232335_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_20211222T232335_20211222T232501_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 (20 Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20211221T233120_20211222T000350_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
	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_20211222T002009_20211222T003837_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_20211222T003928_20211222T005251_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_20211222T010444_20211222T010824_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_20211222T011024_20211222T012545_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_20211222T012747_20211222T013710_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_20211222T015912_20211222T020203_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_20211222T020259_20211222T021628_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_20211222T023238_20211222T023351_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_20211222T023941_20211222T024249_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_20211222T024252_20211222T024726_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_20211222T025006_20211222T030450_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_20211222T034248_20211222T041455_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_20211222T042023_20211222T042621_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_20211222T042942_20211222T045447_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_20211222T045812_20211222T050247_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_20211222T050412_20211222T050428_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_20211222T052740_20211222T055310_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_20211222T060011_20211222T060429_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_20211222T060826_20211222T063732_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_20211222T064426_20211222T064610_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_20211222T070025_20211222T073214_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_20211222T073923_20211222T074504_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_20211222T074805_20211222T075247_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_20211222T075712_20211222T080201_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_20211222T082405_20211222T082539_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_20211222T083842_20211222T091200_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_20211222T091828_20211222T092340_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_20211222T092818_20211222T094521_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_20211222T095552_20211222T095554_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_20211222T101656_20211222T105047_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_20211222T105835_20211222T110248_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_20211222T110729_20211222T113319_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_20211222T113343_20211222T114112_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_20211222T114332_20211222T114510_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_20211222T134238_20211222T135208_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_20211222T135410_20211222T140132_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_20211222T140239_20211222T140901_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_20211222T141135_20211222T141630_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_20211222T141704_20211222T141821_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_20211222T142434_20211222T142701_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_20211222T143600_20211222T143623_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_20211222T144820_20211222T145048_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_20211222T153214_20211222T154817_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_20211222T155120_20211222T155558_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_20211222T155619_20211222T155749_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_20211222T160231_20211222T162539_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_20211222T163817_20211222T163900_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_20211222T170156_20211222T172736_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_20211222T172955_20211222T173459_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_20211222T173519_20211222T173844_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_20211222T174214_20211222T180845_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_20211222T181045_20211222T181341_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_20211222T183722_20211222T190626_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_20211222T190935_20211222T191414_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

GS_OFFL_SIR_COPM_2 20211227195239_20211227195537_C001 Coard Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been Attracter France, SMA, SWH and Backacatter Quality Flags have been attracter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SMA, SWH and Backacatter Quality Flags have been attracter Transe SM
GS_OPFL_SIR_GOPM_2_2021122T200822_2021122T200427_001 and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and Babcatter Cuality Flags have been affinitient frags. SSHA, SWH and
GS_OFFL_SIR_GOPM_2_20211222T20345_0211222T20427_0001 and Backscatter Quality Code Attimeter Range and Backscatter Quality Cap and Backscatter Quality CA
GS_OFFL_SIR_GOPM_2_20211227204427_20211227204442_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, COCOG Altimeter Range, SNA, SWH and Backscatter Quality, Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T210116_20211222T212582_C001 Ocean Altimeter Range, SNA, SWH and Backscatter Quality, Flags, SNA, SWH and Backscatter Quality, Flags, Name been set for one or more records The OCOG Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name been set for one or more records CS_OFFL_SIR_GOPM_2_2021122T212582_021122T21215817_C001 Ocean Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name been and Backscatter Quality, COCG Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name been and Backscatter Quality, OCCG Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name been and Backscatter Quality, OCCG Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name been and Backscatter Quality, OCCG Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name Range and Backscatter Quality, COCG Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name Range and Backscatter Quality, Flags, Name been and Backscatter Quality, OCCG Altimeter Range, SNA, SWH and Backscatter Quality, Flags, Name
US_OFFL_SIR_GOPM_2_20211222T21016_0221222T21252 Coen Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range Backscatter Quality Flags have been Altimeter Range Backscatter Quality Flags have been Altimeter Range Altinter Range Altimeter Range Altimeter Range Altimeter Ran
S2_OFFL_SIR_GOPM_2_20211222T210116_20211222T21252_C001 and Backscatter Quality, GOCG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records CS_OFFL_SIR_GOPM_2_20211222T212538_20211222T215559_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality set for one or more records CS_OFFL_SIR_GOPM_2_20211222T212656_20211222T216569_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20211222T221656_2021122ZT221144_C001 Decan Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20211222T2212322 Color Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20211222T221332_2021122ZT22134_C001 Decan Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_2021122ZT221332_2021122ZT22355_C001 Decan Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_2021122ZT22331_2021122ZT223342_C001 Decan Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_2021122ZT224067_2021122ZT223342_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_GOPM_2_2021122ZT224067_2021122ZT224552_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_GOPM_2_2021122ZT224601_2021122ZT225132_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_2021122ZT224601_2021122ZT2251
CS_OFFL_SIR_GOPM_2_20211222T212538_20211222T213517_C001 and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality, COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, COCG Altimeter Range, SHA, SWH and Backscatter Quality, COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been altimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T221332_20211222T223342_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, COCG Backscatter Quality The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224027_20211222T224552_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T224552_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T224552_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one or mo
CS_OFFL_SIR_GOPM_2_2021122T214654_2021122T215059_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the CCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_2021122T220656_2021122T221144_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_2021122T221332_2021122T222355_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_2021122T222331_2021122T2223342_C001 OCGG Altimeter Range Quality, OCOG Backscatter Quality The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_2021122T224027_2021122T224552_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Qua
CS_OFFL_SIR_GOPM_2_20211222T220656_20211222T221144_C001 and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality and the OCOG Attimeter Range and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20211222T221332_20211222T22355_C001 Dcean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality The Ocean Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T223312_0211222T223342_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224027_20211222T224552_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Attimeter Range and Backscatter Quality Flags nad the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T224552_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality Flags have been at the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T231261_C001 Ocean Attimeter Range Quality, OCOG Atti
CS_OFFL_SIR_GOPM_2_20211222T22332_20211222T223355_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T222331_20211222T223342_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_20211222T224027_20211222T224027_20211222T224552_C001 Ceean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T224601_20211222T225132_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T225356_20211222T225132_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T225356_20211222T231241_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T231631_20211222T231631_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_20211222T233127_202
CS_OFFL_SIR_GOPM_2_202112221223342_0001 Backscatter Quality for one or more records CS_OFFL_SIR_GOPM_2_20211222T224027_20211222T224552_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T225132_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range and
CS_OFFL_SIR_GOPM_2_20211222T224027_20211222T224552_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T225132_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG CS_OFFL_SIR_GOPM_2_20211222T225356_20211222T231241_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T231631_20211222T231241_C001 Ocean Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T231631_20211222T231700_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T233127_20211222T233127_20211222T233127_20211222T233655_C001 Ocean Altimeter Range, SSHA, SWH The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20211222T224601_20211222T225132_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T225356_20211222T231241_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T231631_20211222T231700_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_20211222T233127_20211222T233127_20211222T233655_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20211222T225356_20211222T231241_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20211222T231631_20211222T231700_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_20211222T231631_20211222T2331655_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPML2_202112221231631_202112221231700_C001 Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20211222T233127_20211222T233655_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality set for one or more records
CS_OFFL_SIR_GOPM_2_20211222T233826_20211223T000121_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20211222T013710_20211222T014028_C001 CCG Altimeter Range Quality, OCCG CCG Altimeter Rang
CS_OFFL_SIR_GOPN_2_20211222T050708_20211222T050724_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20211222T065530_20211222T070025_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Backscatter Quality flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20211222T094522_20211222T094837_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Backscatter Quality flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20211222T173513_20211222T173519_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Backscatter Quality flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20211222T203653_20211222T203657_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Elags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20211222T024912_20211222T025006_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20211222T033908_20211222T034125_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flag

CS_OFFL_SIR_GOPR_2_20211222T083839_20211222T083842_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFE SIR GOPR 2 202112221095608 202112221095656 C001	0 ,,	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20211222T000842_20211222T000936_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_20211222T001509_20211222T001931_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_20211222T013710_20211222T014028_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_20211222T015648_20211222T015911_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_20211222T021629_20211222T022155_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_20211222T023134_20211222T023237_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_20211222T023554_20211222T023941_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_20211222T031409_20211222T031728_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_20211222T033328_20211222T033551_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_20211222T033607_20211222T033752_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_20211222T042622_20211222T042834_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_20211222T045448_20211222T045812_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_20211222T050708_20211222T050724_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_20211222T051318_20211222T051749_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_20211222T051832_20211222T051954_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_20211222T055546_20211222T055724_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_20211222T060430_20211222T060722_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_20211222T074504_20211222T074618_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_20211222T080201_20211222T080535_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_20211222T083644_20211222T083839_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_20211222T091511_20211222T091828_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_20211222T092341_20211222T092506_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_20211222T100603_20211222T100703_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_20211222T105225_20211222T105613_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_20211222T140950_20211222T141135_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_20211222T141821_20211222T142434_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_20211222T143357_20211222T143600_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_20211222T143624_20211222T144234_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_20211222T145533_20211222T145655_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_20211222T150019_20211222T150426_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_20211222T152147_20211222T152413_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_20211222T154902_20211222T155120_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_20211222T155749_20211222T160105_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_20211222T163900_20211222T164249_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_20211222T165344_20211222T165417_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_20211222T165831_20211222T170156_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_20211222T173844_20211222T173946_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_20211222T181342_20211222T181942_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_20211222T190812_20211222T190935_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_20211222T191750_20211222T191907_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_20211222T195743_20211222T195916_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_20211222T201123_20211222T201231_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_20211222T203653_20211222T203657_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_20211222T205442_20211222T205750_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_20211222T215631_20211222T215637_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_20211222T220334_20211222T220656_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_20211222T222737_20211222T222930_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_20211222T232915_20211222T233005_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20211222T000515_20211222T000526_C001	PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20211222T000936_20211222T001358_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20211222T001358_20211222T001509_C001	PLRM 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_20211222T005251_20211222T005847_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_20211222T014734_20211222T015051_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_20211222T030450_20211222T031301_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_20211222T032718_20211222T033328_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_20211222T050429_20211222T050708_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_20211222T050724_20211222T050825_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_20211222T050855_20211222T051318_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_20211222T064611_20211222T065530_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_20211222T075247_20211222T075712_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_20211222T081941_20211222T082306_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_20211222T082649_20211222T083435_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_20211222T083606_20211222T083644_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_20211222T091200_20211222T091510_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_20211222T092507_20211222T092818_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_20211222T095608_20211222T095656_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_20211222T095718_20211222T095842_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_20211222T100704_20211222T101656_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_20211222T105047_20211222T105225_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_20211222T110355_20211222T110729_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_20211222T135208_20211222T135301_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_20211222T140132_20211222T140239_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_20211222T142850_20211222T142949_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_20211222T150426_20211222T151119_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_20211222T153026_20211222T153214_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_20211222T164249_20211222T165119_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_20211222T165738_20211222T165828_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_20211222T181942_20211222T182725_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_20211222T182733_20211222T182843_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_20211222T183024_20211222T183134_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_20211222T191907_20211222T192239_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_20211222T195916_20211222T200536_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_20211222T200536_20211222T200821_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_20211222T205751_20211222T210116_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_20211222T213518_20211222T214436_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_20211222T214436_20211222T214610_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_20211222T215206_20211222T215418_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_20211222T222355_20211222T222736_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_20211222T223712_20211222T224026_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_20211222T231323_20211222T231508_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_20211222T231701_20211222T232335_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_20211222T232514_20211222T232914_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

L2 Retracking Flags (20 Hz 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:

146

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20211221T232346_20211222T001324_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_20211222T001324_20211222T010300_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography 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_20211222T010300_20211222T015239_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_20211222T015239_20211222T024215_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_20211222T024215_20211222T033154_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_20211222T033154_20211222T042130_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20211222T042130_20211222T051109_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20211222T051109_20211222T0600045_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_20211222T060045_20211222T065023_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_20211222T065023_20211222T073959_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20211222T073959_20211222T082938_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_20211222T082938_20211222T091914_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_20211222T091914_20211222T100853_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_20211222T100853_20211222T105829_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_20211222T105829_20211222T114807_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_20211222T141658_20211222T150637_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_20211222T150637_20211222T155613_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_20211222T155613_20211222T164551_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_20211222T164551_20211222T173527_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_20211222T173527_20211222T182506_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_20211222T182506_20211222T191442_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_20211222T191442_20211222T200421_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_20211222T200421_20211222T205357_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_20211222T205357_20211222T214335_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_20211222T214335_20211222T223311_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_20211222T223311_20211222T232250_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_20211222T232250_20211223T001226_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) 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.

0

Number of products with errors:

6.6 P2P Measurement Quality	Flag Check
P2P Quality Flags (20 Hz)	
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 d	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	28
P2P Quality Flags (20 Hz PLRM)	
Since the P2P Quality Flags are copied d	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	28
P2P Quality Flags (1 Hz & 1 Hz P	LRM)
Since the P2P Quality Flags are copied d	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	28
6.8 P2P Ocean Retracking Qu	ality Check
P2P Retracking Flags (20 Hz)	
Cryosat P2P data includes an ocean retrack	ing quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): T	his flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.
Number of products with errors:	26
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.

28

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	167	167	4	163	0
SIR_GOPR1B	120	120	0	120	0
SIR_GOPN1B	106	106	2	104	0
SIR_GOPM_2	167	167	123	44	0
SIR_GOPR_2	120	120	44	74	2
SIR_GOPN_2	106	106	45	61	0
SIR_GOP_P2P	27	27	0	25	2

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	2	1	2	2	1	2					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	2	2	2	2							

Test 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

4

				er of occurrences of ea	-		
	BCSHNCDF	IOHHMOOR			MVIONCDF		RBSZOPOEPFDPLRMNC
SIR_GOPM1B SIR GOPM 2	163 0	0	0 32	0 29	0	0 35	0
SIR GOPN1B	104	0	0	0	0	0	0
SIR_GOPN_2	0	0	15	35	3	26	30
SIR_GOPR1B	115	0	0		0	0	0
SIR_GOPR_2	0	2	32	50	2	27	19
Product Type	RBSZOPOEPNCDF	RLPTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
	28	0	30	0	0	0	0
	0 22	0	0	0	0 26	0	0 34
	0	0	0	0	0	0	0
SIR_GOPR_2	7	0	0	49	0	53	0
Dreduct Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
	0	0	0	0	0	0	0
	23	0	0	5	25	0	4
—	0	0	0	0	0	0	0
	0	0	30	20	45	53	30
—	0	51	0	0	0 58	0 38	0 8
	<u> -</u>	••	-	-			-
	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0 29	0	1	0	0	0	0
	0	0	0	1	0	51	0
SIR_GOPN_2	29	29	6	0	2	0	0
—	0	0	0	0	0	120	11
SIR_GOPR_2	39	48	2	0	6	0	0
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF
SIR_GOP_2_	19	27	27	4	27	19	26
D	DI DTONODE		IDDEDODEDONN'S DE		Deepoonop	DOGUAO CONOCC	
Product Type SIR GOP 2	RLPTONCDF	RPEPOPFDPLRMSINNCD 19	27	RPEPOPSINNCDF 24	RSSBCONCDF 16	RSSHAOFDNCDF 27	RSSHAOFDPLRMNCDF
	<u>.</u>						10
	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_GOP_2_	23	27	19	9	27		
Test Description Key:							
Abbreviation	Test name			Details			
BCSHNCDF	BurstCounterStep20HzNetC	CDF		he burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMapping	gOutOfRange		The mapping of 20 Hz to 1 I	Hz measurements should be	in the range 0 to (number of	f 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValualptOcoopEvaludingPalarED2NetCDE			The value should not be a 'r	missing value' for surface typ	o 0 only for latitudes betwee	n -70 and 70 degrees
NIVIOEFFDINGDF	MissingValueIntOceanExcludingPolarFD2NetCDF			The value should not be a t	hissing value for surface typ	e o only for latitudes betwee	in -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExclu	ludingPolarNetCDF		The value should not be a 'r	missing value' for surface typ	e 0 only for latitudes betwee	en -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetC	CDF		The value should not be a 'r	missing value' for surface typ	e 0 only	
RBSZOPOEPFDNCDF	BangeBackscatterSigmaZe	eroOPOceanExcludingPolarF		The backscatter sigma zero	should be between 700 and	7500 (or missing) for surfac	e type = ocean for latitudes
RBSZOPOEPFDPLRM			DENCIODI		r		
NCDF	nangobaonooaatoroigina20	sider occanzionanigi oran		between -70 and 70 degrees		7E00 (as missing) for surface	e turne - e concer feu letitudes
		eroOPOceanExcludingPolarF	D2PLRMNetCDF	between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees	should be between 700 and	7500 (or missing) for surfac	e type = ocean for latitudes
RBSZOPOEPNCDF	RangeBackscatterSigmaZe			The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero	should be between 700 and s should be between 700 and		
	RangeBackscatterSigmaZe RangeBackscatterSigmaZe	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN		The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees	should be between 700 and s should be between 700 and s	7500 (or missing) for surfac	e type = ocean for latitudes
RBSZOPOEPNCDF	RangeBackscatterSigmaZe	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN		The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Long period tide height	should be between 700 and s should be between 700 and s should be between -50mm a	7500 (or missing) for surfac	e type = ocean for latitudes urface type = ocean
	RangeBackscatterSigmaZe RangeBackscatterSigmaZe	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF		The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Long period tide height	should be between 700 and s should be between 700 and s	7500 (or missing) for surfac	e type = ocean for latitudes urface type = ocean
RLPTONCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingI	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF PolarOPFD2LRMNetCDF	letCDF	The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Long period tide height The Peakiness should be bi and 70 degrees The Peakiness should be bi	should be between 700 and s should be between 700 and s should be between -50mm a	7500 (or missing) for surfac and 50mm (or missing) for su ng) for surface type = ocean	e type = ocean for latitudes Irface type = ocean for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingI RangePeakinessExcludingI	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF	letCDF	The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Long period tide height The Peakiness should be be and 70 degrees The Peakiness should be be and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 15000 (or miss	7500 (or missing) for surface and 50mm (or missing) for su ng) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingI RangePeakinessExcludingI	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF PolarOPFD2LRMNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Long period tide height The Peakiness should be be and 70 degrees The Peakiness should be be and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi	7500 (or missing) for surface and 50mm (or missing) for su ng) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingI RangePeakinessExcludingI	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF PolarOPFD2LRMNetCDF PolarOPFD2PLRMSARNetC PolarOPFD2PLRMSINNetCE	letCDF DF	The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Long period tide height The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 15000 (or miss	7500 (or missing) for surface and 50mm (or missing) for su ng) for surface type = ocean sing) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70 n for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF IPolarOPFD2LRMNetCDF IPolarOPFD2PLRMSARNetCD IPolarOPFD2PLRMSINNetCE IPolarOPFD2SARNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Long period tide height The Peakiness should be bi and 70 degrees The Peakiness should be bi and 70 degrees The Peakiness should be bi and 70 degrees The Peakiness should be bi and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 15000 (or miss etween 0 and 15000 (or miss	7500 (or missing) for surface and 50mm (or missing) for su ng) for surface type = ocean sing) for surface type = ocean sing) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingI RangePeakinessExcludingI RangePeakinessExcludingI	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF IPolarOPFD2LRMNetCDF IPolarOPFD2PLRMSARNetCD IPolarOPFD2PLRMSINNetCE IPolarOPFD2SARNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Long period tide height The Peakiness should be be and 70 degrees The Peakiness should be be and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 15000 (or miss etween 0 and 90000 (or miss etween 0 and 90000 (or miss	7500 (or missing) for surface and 50mm (or missing) for su- ng) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF IPolarOPFD2LRMNetCDF IPolarOPFD2PLRMSARNetC IPolarOPFD2PLRMSINNetCE IPolarOPFD2SARNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Long period tide height The Peakiness should be bi and 70 degrees The Peakiness should be bi and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 15000 (or miss etween 0 and 15000 (or miss	7500 (or missing) for surface and 50mm (or missing) for su- ng) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF RPEPOPFDSINNCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF IPOlarOPFD2LRMNetCDF IPOlarOPFD2PLRMSARNetCD IPOlarOPFD2PLRMSINNetCDF IPOlarOPFD2SARNetCDF IPOlarOPFD2SINNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Long period tide height The Peakiness should be be and 70 degrees The Peakiness should be be and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 15000 (or miss etween 0 and 90000 (or miss etween 0 and 90000 (or miss	7500 (or missing) for surface and 50mm (or missing) for sur- ing) for surface type = ocean ing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70 for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF RPEPOPLRMNCDF RPEPOPSARNCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF PolarOPFD2LRMNetCDF PolarOPFD2PLRMSARNetC PolarOPFD2PLRMSINNetCDF PolarOPFD2SARNetCDF PolarOPFD2SINNetCDF PolarOPLRMNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Long period tide height The Peakiness should be be and 70 degrees The Peakiness should be be and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 90000 (or missi etween 0 and 90000 (or missi etween 0 and 90000 (or missi etween 0 and 6400 (or missi etween 0 and 15000 (or missi	7500 (or missing) for surface and 50mm (or missing) for su- ng) for surface type = ocean sing) for surface type = ocean ng) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 in for latitudes between -70 in for latitudes between -70 in for latitudes between -70 for latitudes between -70 for latitudes between -70 in for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF RPEPOPFDSINNCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF PolarOPFD2LRMNetCDF PolarOPFD2PLRMSARNetC PolarOPFD2PLRMSINNetCDF PolarOPFD2SARNetCDF PolarOPFD2SINNetCDF PolarOPLRMNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Long period tide height The Peakiness should be be and 70 degrees The Peakiness should be be and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 90000 (or missi etween 0 and 90000 (or missi etween 0 and 90000 (or missi etween 0 and 6400 (or missi etween 0 and 15000 (or missi	7500 (or missing) for surface and 50mm (or missing) for su- ng) for surface type = ocean sing) for surface type = ocean ng) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70 for latitudes between -70 n for latitudes between -70
RLPTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF RPEPOPLRMNCDF RPEPOPSARNCDF	RangeBackscatterSigmaZe RangeBackscatterSigmaZe RangeLongPeriodTideOcea RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl RangePeakinessExcludingl	eroOPOceanExcludingPolarF eroOPOceanExcludingPolarN anNetCDF IPOlarOPFD2LRMNetCDF IPOlarOPFD2PLRMSARNetCDF IPOlarOPFD2SARNetCDF IPOlarOPFD2SINNetCDF IPOlarOPLRMNetCDF IPOlarOPSARNetCDF	letCDF DF	The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Long period tide height The Peakiness should be bi and 70 degrees The Peakiness should be bi and 70 degrees	should be between 700 and s should be between 700 and s should be between -50mm a etween 0 and 6400 (or missi etween 0 and 90000 (or missi etween 0 and 90000 (or missi etween 0 and 90000 (or missi etween 0 and 6400 (or missi etween 0 and 15000 (or missi	7500 (or missing) for surface and 50mm (or missing) for su- ng) for surface type = ocean sing) for surface type = ocean sing) for surface type = ocean sing) for surface type = ocean ing) for surface type = ocean ing) for surface type = ocean sing) for surface type = ocean sing) for surface type = ocean	e type = ocean for latitudes urface type = ocean for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70 for latitudes between -70 n for latitudes between -70 n for latitudes between -70 n for latitudes between -70
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7.3 Missing QCC Reports

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L1B and	L2 Product name	
n/a		

P2P Product name CS_OFFL_SIR_GOP_2_20211222T232250_20211223T001226_C002