

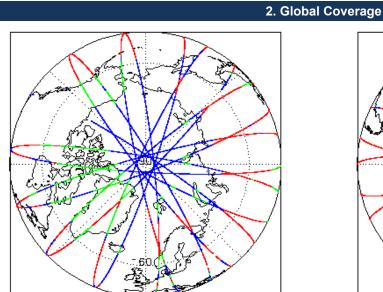
QA4EO Daily Report for GOP data:

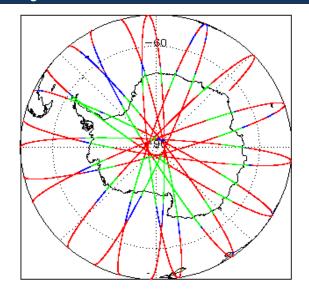
23/03/2021

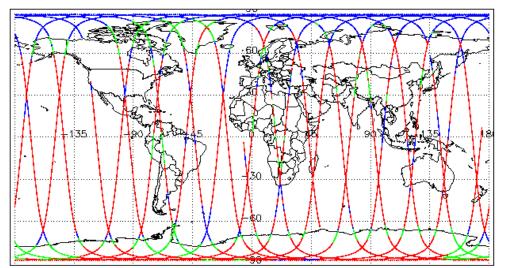
enert Breduction	22 Apr 2021	Check	L1 & L2	P2P
Report Production:	22-Apr-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrucSet Occor Brosser	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

1. Overview

Mission / Instru	Mission / Instrument News	
22-Mar-2021	None	
23-Mar-2021	Due to Orbit Control Manoeuvre, SIRAL unavailability on 23/02/2021 from 19:27:58 UTC to 20:24:54 UTC	
24-Mar-2021	Nothing planned	











3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.				
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_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-det	ermined baseline and also to check the va	lidity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
A ALAD Auvillant Connection Enter Check				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record. Th	e bit value of this flag indicates any proble	ms when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurement	record. The bit value of this flag indicates	any problems when set.		
Attitude Correction Missing: This flag is currently set in error for GOPR products	due to a configuration issue. This is being	investigated and will be updated in the next SW update.		
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_GOPM1B_20210323T145645_20210323T151139_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
4.6 L1B Waveform Group Data Check				
CryoSat L1B data includes a waveform data flag for each measurement record. Th	e bit value of this flag indicates any proble	ms when set.		
Loss of Echo Flag: This flag is currently set for some products over land, but this	is to be expected.			
Number of products with errors: 24				
Product	Test Failed	Description		
CS_OFFL_SIR_GOPM1B_20210323T042053_20210323T042406_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_20210323T081359_20210323T083643_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_20210323T141028_20210323T141811_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_20210323T154356_20210323T155937_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T011341_20210323T011459_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T020838_20210323T021022_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T024821_20210323T025222_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T025246_20210323T025412_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T035005_20210323T035317_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T042843_20210323T043304_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T102322_20210323T102632_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T111441_20210323T111534_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T143207_20210323T143328_C001 CS_OFFL_SIR_GOPN1B_20210323T143632_20210323T143851_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T151219_20210323T14303T_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T161536_20210323T161746_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR GOPN1B 20210323T175043 20210323T175536 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T184258_20210323T184424_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20210323T192332_20210323T192407_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210323T075737_20210323T080023_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210323T092747_20210323T093409_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210323T110309_20210323T111310_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210323T143056_20210323T143207_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20210323T172946_20210323T173051_C001	Loss of Echo	The tracking echo is missing for one or more records		
	Loval 2 Data Quality Ch			
5. GOP Level 2 Data Quality Check				
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensu	re it consists of both an XML header file (.I	HDR) and a binary product file (.DBL).		
Number of products with errors: 0				
5.0 L 2. Des dust Usedes Analysis				
5.2 L2 Product Header Analysis				

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

5.3 L2 Auxiliary Data File Usage Check

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

 Number of products with errors:
 0

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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Number of products with error

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210323T205323_20210323T205353_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_20210323T003129_20210323T003237_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_20210323T011026_20210323T011241_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20210323T011341_20210323T011459_C001	Mean Sea 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_20210323T024821_20210323T025222_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_20210323T025246_20210323T025412_C001	Mean Sea 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_20210323T034702_20210323T034941_C001	Mean Sea 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_20210323T035005_20210323T035317_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210323T042843_20210323T043304_C001	Mean Sea 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_20210323T052619_20210323T052941_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_20210323T060737_20210323T061127_C001	Mean Sea 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_20210323T070724_20210323T070838_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_20210323T084628_20210323T084748_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_20210323T092420_20210323T092542_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_20210323T094504_20210323T094520_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_20210323T101632_20210323T101757_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_20210323T102322_20210323T102632_C001	Mean Sea 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_20210323T115611_20210323T115726_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_20210323T120221_20210323T120545_C001	Mean Sea 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_20210323T133658_20210323T133934_C001	Mean Sea 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_20210323T134127_20210323T134753_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_20210323T143207_20210323T143328_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20210323T143632_20210323T143851_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_20210323T151219_20210323T151826_C001	Mean Sea 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_20210323T161129_20210323T161345_C001	Mean Sea 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_20210323T165428_20210323T165618_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

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CS_OFFL_SIR_GOPN_2_20210323T170445_20210323T170633_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_20210323T175043_20210323T175536_C001	Mean Sea 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_20210323T215322_20210323T215638_C001	Mean Sea 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_20210323T233211_20210323T233530_C001	Mean Sea 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_20210323T234055_20210323T234219_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_20210323T011500_20210323T012227_C001	Mean Sea 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_20210323T025412_20210323T025933_C001	Mean Sea 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_20210323T043305_20210323T043556_C001	Mean Sea 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_20210323T043556_20210323T044011_C001	Mean Sea 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_20210323T061127_20210323T061643_C001	Mean Sea 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_20210323T074820_20210323T075717_C001	Mean Sea 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_20210323T092747_20210323T093409_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20210323T093410_20210323T093724_C001	Mean Sea 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_20210323T093856_20210323T094107_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_20210323T094446_20210323T094503_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_20210323T094520_20210323T094635_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_20210323T110309_20210323T111310_C001	Mean Sea 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_20210323T111311_20210323T111440_C001	Mean Sea 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_20210323T124536_20210323T125208_C001	Mean Sea 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_20210323T124536_20210323T125208_C001 CS_OFFL_SIR_GOPR_2_20210323T125209_20210323T125745_C001		
	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPR_2_20210323T125209_20210323T125745_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPR_2_20210323T125209_20210323T125745_C001 CS_OFFL_SIR_GOPR_2_20210323T142452_20210323T143055_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPR_2_20210323T125209_20210323T125745_C001 CS_OFFL_SIR_GOPR_2_20210323T142452_20210323T143055_C001 CS_OFFL_SIR_GOPR_2_20210323T143056_20210323T143207_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210323T125209_20210323T125745_C001 CS_OFFL_SIR_GOPR_2_20210323T142452_20210323T143055_C001 CS_OFFL_SIR_GOPR_2_20210323T143056_20210323T143207_C001 CS_OFFL_SIR_GOPR_2_20210323T145431_20210323T145645_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1), Total	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography (solution 1) and the
CS_OFFL_SIR_GOPR_2_20210323T125209_20210323T125745_C001 CS_OFFL_SIR_GOPR_2_20210323T142452_20210323T143055_C001 CS_OFFL_SIR_GOPR_2_20210323T143056_20210323T143207_C001 CS_OFFL_SIR_GOPR_2_20210323T145431_20210323T145645_C001 CS_OFFL_SIR_GOPR_2_20210323T160437_20210323T160532_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records 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 There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Dyna
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5.5 L2 Measurement Confidence Data Check				
CryoSat L2 data includes a measurement confidence flag for each 20-Hz mea	surement record. The bit value of this flag indic	cates any problems when set.		
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_GOPM_2_20210323T145645_20210323T151139_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more record		
	, end sound show			
5.6 L2 Measurement Quality Flag Check				
L2 Quality Flags (20Hz)				
CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz	measurement record. The bit value of this flag	g indicates any problems when set.		
Currently, there are several common flags raised in the Level 2 products,	which are summarised below. The table p	rovides the full list of products flagged.		
> Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: The	ese flags are currently set for some records ov	er ocean.		
> OCOG Altimeter Range and Backscatter Quality Flags: These flags are c	urrently set for some records over continental	ice.		
Number of products with errors: 93				
Product	Test Failed	Description		
CS_OFFL_SIR_GOPM_2_20210322T234558_20210323T001415_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_20210323T001426_20210323T001943_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_20210323T002715_20210323T003129_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_20210323T003331_20210323T010054_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_20210323T010224_20210323T010920_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_20210323T010920_20210323T010949_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_20210323T012739_20210323T012819_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_20210323T012902_20210323T013842_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_20210323T014124_20210323T014342_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_20210323T014351_20210323T015051_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_20210323T015054_20210323T015157_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_20210323T015204_20210323T015916_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_20210323T020047_20210323T020608_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_20210323T021717_20210323T022941_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_20210323T023116_20210323T024010_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_20210323T024136_20210323T024355_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_20210323T024516_20210323T024804_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_20210323T030212_20210323T030213_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_20210323T030439_20210323T030710_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_20210323T031023_20210323T032042_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records		

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G. GHL, SR. COMM, 2. 201823733191. 2018237130182. 2019 and Respective Data Program Section Data Program Sectio	CS_OFFL_SIR_GOPM_2_20210323T032550_20210323T033027_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bits State Description Description Description Description Description C0 OPEL_SER_COM2_2010007100012_000012_00001200012_0001200012_0001200000000	CS_OFFL_SIR_GOPM_2_20210323T033120_20210323T033825_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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CS_DOFL_SR_00P4_2_X0210037104169_X0210237104149_X0210424710424710438_X0400 The Obser Allmenter Renge Stable Audit Outly Flag Fame Rene	CS_OFFL_SIR_GOPM_2_20210323T035317_20210323T035725_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_0CPU_2_2021032100194_2021032105191_0001 and Baskaster Quality COCG and Baskaster Quality COCG CS_OFFL_SR_0CPU_2_2021032105192_2021032105492_2021032105497_0001 QCOX Alternativ Rango QUAL QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_2021032105492_2021032105492_0010 QCom Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_2021032105492_021032105494_0011 QCom Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_0221032105492_021032105493_001 QCom Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_02210321054932_021032101570_001 QCom Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_02210321016593_0210210101010_001 QCom Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_02210321016593_0210221010101_001_001 QCom Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_0210321016593_0210221010101_001_001 QCom Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_0210321016504_01_001 QCOM Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_0210321016505_001 QCOM Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_021032106605_001 QCOM Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0CPU_2_021032106605_001 QCOM Alternative Rango QUAL Communicative Rango QUAL CS_OFFL_SR_0	CS_OFFL_SIR_GOPM_2_20210323T041109_20210323T042045_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Carl, Dark, Supplement, 2, 20110021103109, 20210021105010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000010, 20010021000000, 200100210000	CS_OFFL_SIR_GOPM_2_20210323T050134_20210323T051731_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS, OFFL_SR, GOPM_2, 20210323T05000_20210323T05074, C001 and Bedsacater Quality and Bedsacater Quality and Bedsacater Quality The OC00 Altmeter Range and Bedsacater Quality Flags have been at the C00 altmeter Range and Bedsacater Quality CS_OFFL_SIR_GOPM_2, 20210323T050562, 20210323T05078, C001 COC0 Altmeter Range SHA, SVH The OC00 Altmeter Range SHA, SVH CS_OFFL_SIR_GOPM_2, 20210323T050562, 20210323T070337, C001 COC0 Altmeter Range Quality, OC00 The OC00 Altmeter Range, SHA, SVH CS_OFFL_SIR_GOPM_2, 20210323T07045, 20210323T070317, C001 COC0 Altmeter Range, SHA, SVH The OC00 Altmeter Range, SHA, SVH CS_OFFL_SIR_GOPM_2, 20210323T07045, 20210323T070315, C001 COC0 Altmeter Range, SHA, SVH The OC00 Altmeter Range, SHA, SVH CS_OFFL_SIR_GOPM_2, 20210323T07045, 20210323T070151, C001 COC0 Altmeter Range, SHA, SVH The OC00 Altmeter Range, SHA, SVH CS_OFFL_SIR_GOPM_2, 20210323T080191, C001 COC0 Altmeter Range, SHA, SVH The OC00 Altmeter Range, SHA, SVH CS_OFFL_SIR_GOPM_2, 20210323T080191, C001 COC0 Altmeter Range, SHA, SVH The OC00 Altmeter Range, SHA, SVH CS_OFFL_SIR_GOPM_2, 20210323T081937, C001 COC00 Altmeter Range, SHA, SVH The OC00 Altmeter Range and Backacater Quality Flags have been at the resolution. CS_OFFL_SIR_GOPM_2, 20210323T081937, C001 COC00 Altmeter Range, SHA, SVH The OC00 Altmeter Range SHA, SVH The OC00 Altmeter Range SHA, SVH	CS_OFFL_SIR_GOPM_2_20210323T051952_20210323T052437_C001		
CB_OFFL_SIR_GOPM_2_02010331063052_02100230707337_0001 and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range Altimeter Range, SIA, SWH The Quality Range have been set for one more records. CS_OFFL_SIR_GOPM_2_020103231063042_02100231070337_0001 Ocean Altimeter Range, SIA, SWH The Quality Range have been set for one more records. CS_OFFL_SIR_GOPM_2_020103231060042_021002310707310_0001 Ocean Altimeter Range, SIA, SWH Antimeter Range, Cuality, OCOG Altimeter Range, SIA, SWH Antimeter Range, SIA, SWH Antimeter Range, Cuality, OCOG Altimeter Range, Cuality, OCOG Altimeter Range, Cuality, OCOG Altimeter Range, SIA, SWH Antimeter Range, SIA, SWH Antine Coco, Altimeter Range, SIA, SWH Antimeter	CS_OFFL_SIR_GOPM_2_20210323T053009_20210323T055744_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Displant	CS_OFFL_SIR_GOPM_2_20210323T063052_20210323T065708_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2.202103231070945_20210323107319_C001 and Backscatter Quality, COCG Alimeter Range and Backscatter Quality Flags have been at an Backscatter Quality Alimeter Range and Backscatter Quality COCG Alimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.202103231060917_202103231061357_C001 OCGA Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.202103231060917_202103231061357_C001 Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.202103231060917_202103231061357_C001 Ocean Alimeter Range And Backscatter Quality, COCG Alimeter Range Alimeter Range and Backscatter Quality, COCG Alimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.202103231064392_C001 Ocean Alimeter Range and Backscatter Quality, COCG Alimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20210323106491_202103231064292_C001 Ocean Alimeter Range and Backscatter Quality, COCG Alimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20210323106491_202103231064292_C001 Ocean Alimeter Range SSHA, SWH and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20210323110100_C001 Ocean Alimeter Range SSHA, SWH and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20210323110100_C001 Ocean Alimeter Range.SSHA, SWH and Backscatter	CS_OFFL_SIR_GOPM_2_20210323T065943_20210323T070337_C001		
Cal_PPT_SIR_GOPM_2_20210323T0800617_20210323T0806817_20210323T081557_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_GOPM_2_20210323T0806817_20210323T081557_C001 CCean Attimeter Range, SSHA, SWH and Backscatter Quality The Ocean Attimeter Range, SSHA, SWH and the OCCA Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCA Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCA Attimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T08459_20210323T084643_C001 CCean Attimeter Range Quality. COCG Attimeter Range Quality. COCG Attimeter Range Quality. COCG Attimeter Range and Backscatter Quality The Ocean Attimeter Range, SSHA, SWH and the OCCA Attimeter Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T0840911_20210323T08429_C001 CCean Attimeter Range, SSHA, SWH and Backscatter Quality. COCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been atter for one or more records. CS_OFFL_SIR_GOPM_2_20210323T084091_20210323T08439_C001 Ccean Attimeter Range, SSHA, SWH and Backscatter Quality. COCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been atter for one or more records. CS_OFFL_SIR_GOPM_2_20210323T100305_20210323T101106_C001 Ccean Attimeter Range, SSHA, SWH and Backscatter Quality. Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality. Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality. Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality. Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality. Flags have been Attimeter Range and Backscatter Quality. CCCG Attimet	CS_OFFL_SIR_GOPM_2_20210323T070945_20210323T073719_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T080817_20210323T081357_C001 and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_GOPM_2_20210323T081369_20210323T083643_C001 Ocean Altimeter Range and Backscatter Quality, CCOG The Ocean Altimeter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_GOPM_2_20210323T083807_20210323T084252_C001 OCCGA Altimeter Range Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T084011_20210323T084252_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T084011_20210323T082419_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T083056_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCGG Altimeter Range and Backscatter Quality, Flags have been at the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the decord Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCGG	CS_OFFL_SIR_GOPM_2_20210323T080024_20210323T080815_C001		
CS_OFFL_SIR_GOPM_2_20210323T081359_20210323T08364_C001 and Backscatter Quality. COCG and the OCOG Altimeter Range and Backscatter Quality Flags have been act CS_OFFL_SIR_GOPM_2_20210323T084057_20210323T084252_C001 DCOG Altimeter Range Quality. COCG The OCOG Altimeter Range and Backscatter Quality Flags have been act CS_OFFL_SIR_GOPM_2_20210323T084091_20210323T092419_C001 Dcoean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T084091_20210323T092419_C001 Dcean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T093705_20210323T09366_C001 Dcean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T100305_20210323T101056_C001 Dcean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T101066_20210323T101106_C001 Dcean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T101306_20210323T101613_C001 Dcean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T101506_20210323T101613_C001 Dcean Altimeter Range Cuality, OCOG The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T101506_20210323T10512_C001 DCOG Altimeter Range Quality, OCOG The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T10521_C001	CS_OFFL_SIR_GOPM_2_20210323T080817_20210323T081357_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T008401_20210323T0092419_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_GOPM_2_20210323T084011_20210323T092419_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality. COGG Altimeter Range and Backscatter Quality Flags and Backscatter Quality. COGG Altimeter Range, and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality. COGG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality. COGG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality. COGG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality. COGG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality. COGG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality. COGG Altimeter Range and Backscatter Quality. Flags have been Altimeter Range and Backscatter Quality. COGG Altimeter Range and Backscatter Quality. Flags and the COCG Altimeter Range and Backscatter Quality. Flags have been Altimeter Range and Backscatter Quality. Flags have been Altimeter Range and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have been at the COCG Altimeter Range and Backscatter Quality. Flags have	CS_OFFL_SIR_GOPM_2_20210323T081359_20210323T083643_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T084911_20210323T092419_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality ext for one or more records. CS_OFFL_SIR_GOPM_2_20210323T093725_20210323T093856_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T09005_20210323T10106_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T1010905_20210323T101106_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T101306_20210323T101613_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T101306_20210323T101613_C001 Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T101768_20210323T101613_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality For one or more records. CS_OFFL_SIR_GOPM_2_20210323T101768_20210323T102321_C001 OCCGA Altimeter Range Quality, OCOG CS_OFFL_SIR_GOPM_2_20210323T105427_20210323T105126_C001 Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T105411_20210323T105126_C001 Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T105411_20210323T10309_C001 Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPM_2_20210323T1105411_20210323T110309_C001 Ocean Altimeter Range and Backscatter Quality C	CS_OFFL_SIR_GOPM_2_20210323T083807_20210323T084252_C001		
CS_OFFL_SIR_GOPM_2_20210323T093725_0210323T093856_C001 and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality and the OCCG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T100905_20210323T101106_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T101306_20210323T101613_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T10156_20210323T102321_C001 Ocean Altimeter Range, Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, CCG The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T10232T_0323T_0332T_0232T_0232T_0232T_0332T_0	CS_OFFL_SIR_GOPM_2_20210323T084911_20210323T092419_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T100905_20210323T101106_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210323T101306_20210323T101613_C001 Ocean Altimeter Range, SSHA, SWH 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_20210323T101306_20210323T101613_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T101758_20210323T102321_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T102827_20210323T105126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, GCOG Altimeter Range and Backscatter Quality, GCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, GCOG Altimeter Range and Backscatter Quality, GCOG Altimeter Range and Backscatter Quality, GCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T105411_20210323T110309_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F	CS_OFFL_SIR_GOPM_2_20210323T093725_20210323T093856_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T101306_20210323T101613_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_20210323T101758_20210323T102321_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_20210323T102827_20210323T105126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been ad the OCOG 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_20210323T105411_20210323T10309_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags hand Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20210323T11558_20210323T11918_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_	CS_OFFL_SIR_GOPM_2_20210323T100905_20210323T101106_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T101738_20210323T10232T_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_GOPM_2_20210323T102827_20210323T105126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T111558_20210323T111918_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T113529_20210323T115513_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags hat the OCOG Altimeter Range and	CS_OFFL_SIR_GOPM_2_20210323T101306_20210323T101613_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T102827_20210323T105126_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_GOPM_2_20210323T105411_20210323T10309_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWHThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags hand the OCOG Altimeter Range and Backscatter Quality Flags hand backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand the OCOG Altimeter Range and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hand the OCOG Altimeter Range and Backscatter Quality Flags hand	CS_OFFL_SIR_GOPM_2_20210323T101758_20210323T102321_C001		
CS_OFFL_SIR_GOPM_2_20210323T105411_20210323T110309_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_20210323T111558_20210323T111918_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210323T113529_20210323T115513_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG CS_OFFL_SIR_GOPM_2_20210323T113529_20210323T115513_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20210323T102827_20210323T105126_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T111558_20210323T111918_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_20210323T113529_20210323T115513_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_20210323T105411_20210323T110309_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210323T113529_20210323T115513_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20210323T111558_20210323T111918_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20210323T113529_20210323T115513_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20210323T120737_20210323T124059_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_20210323T130356_20210323T130616_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_20210323T130700_20210323T132959_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_20210323T133934_20210323T134127_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_20210323T134808_20210323T140342_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_20210323T141028_20210323T141811_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_20210323T143901_20210323T145431_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_20210323T145645_20210323T151139_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_20210323T151826_20210323T152040_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_20210323T152717_20210323T154217_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_20210323T154356_20210323T155937_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_20210323T160024_20210323T160028_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_20210323T160032_20210323T160437_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_20210323T162205_20210323T163324_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_20210323T163829_20210323T165350_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_20210323T165618_20210323T170445_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_20210323T170646_20210323T172945_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_20210323T180538_20210323T183300_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_20210323T183809_20210323T184258_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_20210323T184546_20210323T184827_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_20210323T184932_20210323T191154_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_20210323T202457_20210323T205320_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_20210323T210124_20210323T210320_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_20210323T211612_20210323T215112_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_20210323T215638_20210323T220158_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_20210323T220329_20210323T220725_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_20210323T220834_20210323T220956_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_20210323T223941_20210323T224224_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_20210323T224239_20210323T224338_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_20210323T225607_20210323T230439_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_20210323T230725_20210323T233031_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_20210323T233648_20210323T234054_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_20210323T234229_20210323T235559_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_20210323T235746_20210324T000350_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T015916_20210323T020046_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T060527_20210323T060649_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T065720_20210323T065942_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T070338_20210323T070342_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T143207_20210323T143328_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T151219_20210323T151826_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T175043_20210323T175536_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210323T010054_20210323T010224_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210323T032416_20210323T032550_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210323T051732_20210323T051749_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210323T101614_20210323T101631_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210323T110309_20210323T111310_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210323T210320_20210323T210440_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS OFFE SIR GOPN 2 202103231002108 202103231002512 CO01	0 1	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	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_20210323T011341_20210323T011459_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_20210323T020838_20210323T021022_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_20210323T024821_20210323T025222_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_20210323T030710_20210323T031022_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_20210323T033829_20210323T034013_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_20210323T034702_20210323T034941_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_20210323T035005_20210323T035317_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_20210323T040456_20210323T041109_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_20210323T042406_20210323T042528_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_20210323T042749_20210323T042826_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_20210323T042843_20210323T043304_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_20210323T045115_20210323T045238_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_20210323T052619_20210323T052941_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_20210323T062640_20210323T062811_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_20210323T084628_20210323T084748_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_20210323T100201_20210323T100323_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_20210323T101632_20210323T101757_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_20210323T112413_20210323T112457_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_20210323T113213_20210323T113528_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_20210323T115611_20210323T115726_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_20210323T120221_20210323T120545_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_20210323T134127_20210323T134753_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_20210323T143207_20210323T143328_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_20210323T143632_20210323T143851_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210323T151219_20210323T151826_C001	PLRM	

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CS_OFFL_SIR_GOPN_2_20210323T161536_20210323T161746_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_20210323T163352_20210323T163828_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_20210323T170445_20210323T170633_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_20210323T173120_20210323T173502_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_20210323T175043_20210323T175536_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_20210323T183718_20210323T183808_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_20210323T184427_20210323T184511_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_20210323T220159_20210323T220318_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_20210323T221632_20210323T221738_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_20210323T222112_20210323T222219_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_20210323T223606_20210323T223636_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_20210323T223842_20210323T223941_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_20210323T225216_20210323T225355_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_20210323T225410_20210323T225519_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_20210323T233211_20210323T233530_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_20210323T011500_20210323T012227_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_20210323T012409_20210323T012738_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_20210323T015157_20210323T015203_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_20210323T025412_20210323T025933_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_20210323T030001_20210323T030108_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_20210323T043305_20210323T043556_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_20210323T045348_20210323T050134_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_20210323T055744_20210323T055935_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_20210323T061127_20210323T061643_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_20210323T061712_20210323T061948_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_20210323T074820_20210323T075717_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_20210323T075737_20210323T080023_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_20210323T092542_20210323T092620_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_20210323T092747_20210323T093409_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_20210323T093410_20210323T093724_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_20210323T110309_20210323T111310_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_20210323T112057_20210323T112226_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_20210323T124100_20210323T124132_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_20210323T124149_20210323T124338_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_20210323T124536_20210323T125208_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_20210323T125209_20210323T125745_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_20210323T133342_20210323T133658_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_20210323T141901_20210323T142136_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_20210323T142452_20210323T143055_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_20210323T143056_20210323T143207_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_20210323T145431_20210323T145645_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_20210323T160012_20210323T160024_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_20210323T160548_20210323T160630_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_20210323T161345_20210323T161536_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_20210323T162046_20210323T162205_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_20210323T165351_20210323T165428_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_20210323T172946_20210323T173051_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_20210323T174426_20210323T175042_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_20210323T175603_20210323T175837_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_20210323T180321_20210323T180538_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_20210323T183300_20210323T183402_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_20210323T192129_20210323T192252_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_20210323T192308_20210323T192331_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_20210323T192408_20210323T192530_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_20210323T192556_20210323T192759_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_20210323T205927_20210323T210123_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_20210323T210320_20210323T210440_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_20210323T210456_20210323T211300_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_20210323T223041_20210323T223435_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_20210323T223639_20210323T223812_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_20210323T224339_20210323T225216_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products	, which are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for	products over sea ice, which is to be expected	I.
Number of products with errors: 200		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20Hz)		
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea	surement record. The bit value of this flag indic	ates any problems when set.
	-	
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea	-	
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la	-	
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla	number of products with this error flag set is given below. ag indicates any problems when set.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 <i>L2 Retracking Flags (20Hz, PLRM)</i> CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla	number of products with this error flag set is given below. ag indicates any problems when set.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla	number of products with this error flag set is given below. ag indicates any problems when set.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla s GOPR and GOPN products over sea ice, but	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla s GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 <i>L2 Retracking Flags (20Hz, PLRM)</i> CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 <u>6. GOP L</u> 6.1 P2P Product Format Check	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla s GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla s GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 <i>L2 Retracking Flags (20Hz, PLRM)</i> CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 <u>6. GOP L</u> 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (.	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc).
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 <i>L2 Retracking Flags (20Hz, PLRM)</i> CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 <u>6. GOP L</u> 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (.	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc).
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 C. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (.	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc).
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 C. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pro Number of products with errors: 0	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pr Number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fit is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a provent of products with errors: 0	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fla is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pr Number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise for > ECMWF Meteo Corrections: Currently the following corrections are not cor	nd and sea ice, but this is to be expected. The M measurement record. The bit value of this fit is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a e-determined baseline and also to check the value ecked for the default error value (32767). he Level 2 products which are expected due on this test. mputed over CONTINENTAL ICE: Dry Troposp	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. e to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pr Number of products, the errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise for > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model wit not reported in the table below.	Ind and sea ice, but this is to be expected. The M measurement record. The bit value of this file is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va- ecked for the default error value (32767). he Level 2 products which are expected due on this test. mputed over CONTINENTAL ICE: Dry Troposp rd vector. This is a known anomaly (CRYO-CC	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. e to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric (P-3) and will be resolved in a future IPF update. The affected products are
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 C. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 C. 2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 C.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pro Number of products with errors: 0 C.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise for > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model wi not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for	Ind and sea ice, but this is to be expected. The M measurement record. The bit value of this factors is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies and e-determined baseline and also to check the vac ecked for the default error value (32767). he Level 2 products which are expected due on this test. mputed over CONTINENTAL ICE: Dry Troposp id vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expect	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. ative to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ed.
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meal Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 59 L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 149 6. GOP L 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pr Number of products, with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise for > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model with not reported in the table below.	Ind and sea ice, but this is to be expected. The M measurement record. The bit value of this fa is GOPR and GOPN products over sea ice, but 2 Pole-to-Pole Data Quality ensure it consists of both an XML header file (. d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). he Level 2 products which are expected due on this test. mputed over CONTINENTAL ICE: Dry Troposp id vector. This is a known anomaly (CRYO-CC	number of products with this error flag set is given below. ag indicates any problems when set. t this is to be expected. / Check HDR) and a NetCDF product file (.nc). and/or errors raised by the ground-segment processing chain. alidity of Auxiliary Data Files is correct. ative to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220210323T002649_20210323T011624_C001	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_GOP_220210323T011624_20210323T020604_C001	Mean Sea 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_220210323T020604_20210323T025539_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220210323T025539_20210323T034518_C001	Mean Sea 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_220210323T034518_20210323T043453_C001	Mean Sea 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_0FFL_SIR_GOP_220210323T043453_20210323T052433_C001	Mean Sea 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_220210323T052433_20210323T061408_C001	Mean Sea 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_220210323T061408_20210323T070348_C001	Mean Sea 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_220210323T070348_20210323T075323_C001	Mean Sea 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_220210323T075323_20210323T084302_C001	Mean Sea 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_220210323T084302_20210323T093238_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220210323T093238_20210323T102217_C001	Mean Sea 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_220210323T102217_20210323T111152_C001	Mean Sea 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_220210323T111152_20210323T120132_C001	Mean Sea 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_220210323T120132_20210323T125107_C001	Mean Sea 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_220210323T125107_20210323T134046_C001	Mean Sea 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_220210323T134046_20210323T143021_C001	Mean Sea 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_220210323T143021_20210323T152001_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220210323T152001_20210323T160936_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220210323T160936_20210323T165915_C001	Mean Sea 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_220210323T165915_20210323T174851_C001	Mean Sea 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_220210323T174851_20210323T183830_C001	Mean Sea 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_220210323T183830_20210323T192806_C001	Mean Sea 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_220210323T201745_20210323T210720_C001	Mean Sea 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_220210323T210720_20210323T215700_C001	Mean Sea 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_220210323T215700_20210323T224635_C001	Mean Sea 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_220210323T224635_20210323T233614_C001	Mean Sea 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_20210323T233614_20210324T002550_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height 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.

1 Number of products with errors:

Product	Test Failed	Description					
CS_OFFL_SIR_GOP_220210323T143021_20210323T152001_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records					
6.6 P2P Measurement Quality Flag Check							
P2P Quality Flags (20Hz)							
r 2r Quanty riags (2012) CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.							

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. 29

Number of products with errors:

P2P Quality Flags (20Hz PLRM)

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

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.

29

4

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	176	176	3	173	0
SIR_GOPR1B	131	131	0	131	0
SIR_GOPN1B	99	99	2	97	0
SIR_GOPM_2	176	176	118	58	0
SIR_GOPR_2	131	131	42	87	2
SIR_GOPN_2	99	99	38	61	0
SIR_GOP_P2P	28	28	0	26	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

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
SIR_GOPM1B	173	0	0	0	0	0	0
SIR_GOPM_2	0	0	36	41	0	47	0
SIR_GOPN1B	97	0	0	0	0	0	0
SIR_GOPN_2	0	0	10	34	4	24	27
SIR GOPR1B	127	0	0	0	0	0	0
SIR_GOPR_2	0	2	19	39	2	35	30
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARN		DIRPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR GOPM1B	0	0	0	0	0	0	0
SIR GOPM 2	41	0	30	0	0	0	0
SIR GOPN1B	0	0	0	0	0	0	0
SIR GOPN 2	15	1	0	0	24	0	33
SIR GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	11	1	0	41	0	47	0
0.1.20011.22			-		17		-
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	25	0	0	9	22	0	7
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	28	8	35	54	28
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	37	0	1	68	29	14
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR GOPM1B	0	0	0	1	0	0	1
	•	0	U	1	U	0	
-	30	0	4	1	0	0	0
SIR_GOPM_2			4 0	1	-		0 1
SIR_GOPM_2 SIR_GOPN1B	30	0	4	1 0 0	0	0	0 1 0
SIR_GOPM1B SIR_GOPM2 SIR_GOPN1B SIR_GOPN2 SIR_GOPR1B	30 0	0	4 0 10 0	1 0 0 0	0	0 44	0 1 0 6
SIR_GOPM_2 SIR_GOPN1B SIR_GOPN_2	30 0 24	0 0 27	4 0 10	1 0 0 0 1	0 0 0	0 44 0	0 1 0 6 0
SIR_GOPM_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPR1B	30 0 24 0 28	0 0 27 0 40	4 0 10 0 2	1	0 0 0 0 6	0 44 0 131 0	0
SIR_GOPM_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPR1B	30 0 24 0	0 0 27 0	4 0 10 0	1 0 0 1 1 MVIONCDF	0 0 0 0	0 44 0 131	0
SIR_GOPM_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPR1B SIR_GOPR_2	30 0 24 0 28	0 0 27 0 40	4 0 10 0 2	1	0 0 0 0 6	0 44 0 131 0	0
SIR_GOPM_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_	30 0 24 0 28 IOHHMOOR 15	0 0 27 0 40 MVIOEPFDNCDF 26	4 0 10 0 2 MVIOEPNCDF 28	MVIONCDF 6	0 0 0 0 6 RBSZOPOEPFDNCDF 28	0 44 0 131 0 RBSZOPOEPFDPLRMNC 17	0 RBSZOPOEPNCDF 28
SIR_GOPM_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPR1B SIR_GOPR_2 Product Type	30 0 24 0 28 IOHHMOOR	0 0 27 0 40 MVIOEPFDNCDF	4 0 10 0 2 MVIOEPNCDF 28	1 MVIONCDF	0 0 0 0 6 6 RBSZOPOEPFDNCDF	0 44 0 131 0 RBSZOPOEPFDPLRMNC	0 RBSZOPOEPNCDF

	5 est name urstCounterStep20HzNetC	28	18	14	28				
Abbreviation Te									
Abbreviation Te									
				Details					
		DF		The burst counter should be one higher with regard to the previous burst counter					
							4 U		
IOHHMOOR Inc	dexOf1Hzin20HzMapping0	JutOfRange		The mapping of 20 Hz to 1 I	Hz measurements should be	In the range U to (number of	1 Hz samples - 1)		
MVIOEPFDNCDF Mit	issingValueIntOceanExclue	dingPolarFD2NetCDF		The value should not be a 'r	nissing value' for surface type	e 0 only for latitudes betweer	n -70 and 70 degrees		
MVIOEPNCDF Mis	issingValueIntOceanExclue	dingPolarNetCDF		The value should not be a 'r	nissing value' for surface type	e 0 only for latitudes betweer	n -70 and 70 degrees		
MVIONCDF Mit	lissingValueIntOceanNetCE	DF		The value should not be a 'r	nissing value' for surface type	e 0 only			
RBSZOPOEPFDNCDF Ra	angeBackscatterSigmaZer	oOPOceanExcludingPolarFE	2NetCDF	The backscatter sigma zero between -70 and 70 degree	should be between 700 and s	7500 (or missing) for surface	e type = ocean for latitudes		
RBSZOPOEPFDPLRM Ra	angeBackscatterSigmaZer	oOPOceanExcludingPolarFE	2PLRMNetCDF	The backscatter sigma zero between -70 and 70 degree	should be between 700 and s	7500 (or missing) for surface	e type = ocean for latitudes		
	angeBackscatterSigmaZer	oOPOceanExcludingPolarNe	etCDF	The backscatter sigma zero between -70 and 70 degree	should be between 700 and s	7500 (or missing) for surface	e type = ocean for latitudes		
RNELPOTONCDF Ra	angeNELPOceanTideOcea	anNetCDF		The Non-equilibrium long pe surface type = ocean	eriod ocean loading tide heigl	ht should be between -40mm	n and 40mm (or missing) for		
RPEPOPFDLRMNCDF Ra	angePeakinessExcludingP	olarOPFD2LRMNetCDF		The Peakiness should be be and 70 degrees	etween 0 and 6400 (or missir	ng) for surface type = ocean t	for latitudes between -70		
RPEPOPFDPLRMSAR Ra	angePeakinessExcludingP	olarOPFD2PLRMSARNetCD		The Peakiness should be be and 70 degrees	etween 0 and 15000 (or miss	sing) for surface type = ocean	for latitudes between -70		
	angePeakinessExcludingP	olarOPFD2PLRMSINNetCDI	Ę	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSARNCDF Ra	angePeakinessExcludingP	olarOPFD2SARNetCDF		The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSINNCDF Ra	angePeakinessExcludingP	olarOPFD2SINNetCDF		The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLRMNCDF Ra	angePeakinessExcludingP	olarOPLRMNetCDF		The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
	angePeakinessExcludingP			The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF Ra	angePeakinessExcludingP	olarOPSINNetCDF		The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF Ra	angeSeaStateBiasCorrection	onOceanNetCDF		The sea state bias correctio	a state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF Ra	angeSeaSurfaceHeightAnc	omalyOceanFD3NetCDF		The sea surface height ano ocean	maly should be between -300	00mm and 3000mm (or missi	ing) for surface type =		
RSSHAOFDPLRMNCD Ra	angeSeaSurfaceHeightAnc	omalyOceanFD3PLRMNetCE	DF	The sea surface height anon ocean	maly should be between -300	00mm and 3000mm (or missi	ing) for surface type =		
RSSHAONCDF Ra	angeSeaSurfaceHeightAnc	omalyOceanNetCDF		The sea surface height ano ocean	maly should be between -300	00mm and 3000mm (or missi	ing) for surface type =		
RSWHOEPFDNCDF Ra	angeSignificantWaveHeigh	tOceanExcludingPolarFD2N	etCDF	The significant wave height latitudes between -70 and 7	should be between 0mm and 0 degrees	d 15000mm (or missing) for s	surface type = ocean for		
RSWHOEPFDPLRMNC Ra	angeSignificantWaveHeigh	tOceanExcludingPolarFD2P	LRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
	angeSignificantWaveHeigh	tOceanExcludingPolarNetCI	DF		should be between 0mm and	d 15000mm (or missing) for s	surface type = ocean for		
SPHRTASCNSNCDF SF	PH_Rel_Time_ASC_Node	_Start_v2_NetCDF			t mismatch (DBL ASC, round	led up to 0.1)			
SOOHHIFHD Sa	ameOrOneHigher1HzIndex	For20HzData		The 1 Hz index of a 20 Hz s	ample should be the same o	r 1 higher than its previous s	ample		
SCSTODHRNCDF Se	equenceCounterStepTODF	IRNetCDF		The sequence counter shou	ld be modulo 4 higher with re	egard to the previous sequen	ice counter		
SCSTODNCDF Se	equenceCounterStepTODN	NetCDF		The sequence counter shou	ld be one higher (modulo 16	384) with regard to the previo	ous sequence counter		

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0