

## **QA4EO Daily Report for GOP data:**

<u>13/11/2022</u>

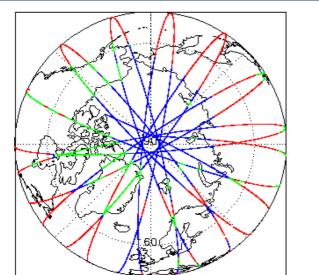
# IDEAS-QA4E0

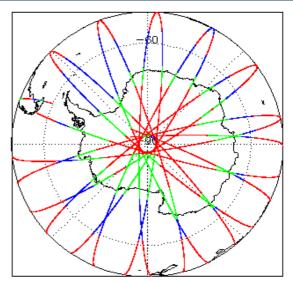
Denert Dreduction.	14-Dec-2022	Check	L1 & L2	P2P
Report Production:	14-Dec-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Crucest Occar Brassager	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	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
We would love to hear from you!		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Please let us know your feedback about these daily		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
quality reports: What do you like/ dislike? What quality		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
information do you need? Send your feedback to cs2_qc_team@telespazio.com		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2 and 7.3

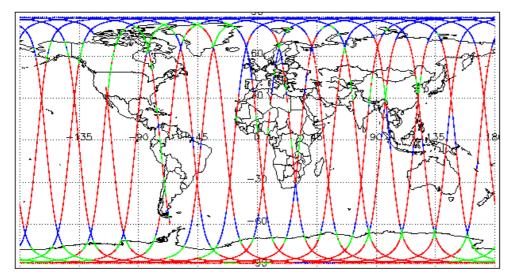
1. Overview

Mission / Instrument News			
12-Nov-2022			
13-Nov-2022	None		
14-Nov-2022	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 NetCDF product file (.nc).

Number of products with errors:

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are perform	ed on the MPH and SPI	H in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.	
L1B Processing Quality HR: The l1b_proc_flag_hr flag is	currently set all L1B GO	PR 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	se.			
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors v	vith respect to a pre-det	ermined baseline and also to check the va	alidity of Auxiliary Data Files is correct.	
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Chec	k			
CryoSat L1B data includes a correction error flag for each r		e hit value of this flag indicates any proble	ame when set	
Number of products with errors: 0	leasurement record. Th	e bit value of this hag indicates any proble		
4.5 L1B Measurement Confidence Data	Check			
CryoSat L1B data includes a measurement confidence flag				
Attitude Correction Missing: This flag is currently set in e Number of products with errors: 1	rror for GOPR products	due to a configuration issue. This is being	investigated and will be updated in the next SW update.	
		<b>-</b> . <b>-</b>		
Product CS OFFL SIR GOPM1B 20221113T015205 20221113T	015550 C001	Test Failed Power scaling error	Description 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 r	easurement record. The	e bit value of this flag indicates any proble	ms when set.	
Loss of Echo Flag: This flag is currently set for some prod	ucts over land, but this i	s to be expected.		
Number of products with errors: 22				
Product		Test Failed	Description	
CS_OFFL_SIR_GOPM1B_20221113T091315_20221113T		Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOPM1B_20221113T141219_20221113T CS_OFFL_SIR_GOPM1B_20221113T195857_20221113T		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_GOPM1B_20221113T210608_20221113T	_	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOPM1B_20221113T223655_20221113T		Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOPN1B_20221113T081751_20221113T0 CS_OFFL_SIR_GOPN1B_20221113T095656_20221113T0		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_20221113T103950_20221113T		Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOPN1B_20221113T113614_20221113T	14206_C001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOPN1B_20221113T131626_20221113T CS_OFFL_SIR_GOPN1B_20221113T145824_20221113T		Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOPN1B_202211131145624_202211131 CS_OFFL_SIR_GOPN1B_20221113T204233_20221113T2		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_20221113T212729_20221113T2	212825_C001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOPN1B_20221113T230154_20221113T2	230706_C001	Loss of Echo	The tracking echo is missing for one or more records	
	5. GOP	Level 2 Data Quality Ch	eck	
Ed. L.O. Due due to Ferminet Ohio elu				
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science ser Number of products with errors: 0	ver, is checked to ensur	e it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).	
Number of products with errors: 0				
5.2 L2 Product Header Analysis				
For all products, a series of pre-defined checks are perform	ed on the MPH and SPI	H in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.	
Number of products with errors: 0				
5.3 L2 Auxiliary Data File Usage Check				
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 Geophy				
Currently, there are some common auxiliary correction errors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.				
> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.				
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.				
> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.				
Number of products with errors: 50				
Product		Test Failed	Description	

CS\_OFFL\_SIR\_GOPM\_2\_20221113T005633\_20221113T012357\_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPM_2_20221113T065749_20221113T071527_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20221113T132845_20221113T135535_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_20221113T004308_20221113T004540_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_20221113T005301_20221113T005445_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_20221113T023201_20221113T023337_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_20221113T040858_20221113T041217_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_20221113T054126_20221113T054246_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_20221113T054755_20221113T055106_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20221113T072219_20221113T072459_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_20221113T072659_20221113T073230_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_20221113T081751_20221113T082233_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221113T090133_20221113T090409_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_20221113T095656_20221113T095805_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_20221113T113614_20221113T114206_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_20221113T121902_20221113T122050_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_20221113T122902_20221113T123126_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_20221113T131626_20221113T132035_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20221113T145824_20221113T150242_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221113T153838_20221113T154211_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_20221113T171754_20221113T172115_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_20221113T172628_20221113T172752_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_20221113T180839_20221113T181000_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_20221113T190530_20221113T190639_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_20221113T194801_20221113T194910_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_20221113T204233_20221113T204426_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_20221113T212729_20221113T212825_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221113T230154_20221113T230706_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_20221113T235140_20221113T235432_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_20221112T235713_20221113T000230_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_20221113T013516_20221113T014532_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_20221113T031310_20221113T032044_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
		There is an error with the Mean Dynamic Topography (solution 1) for one

CS_OFFL_SIR_GOPR_2_20221113T045052_20221113T045849_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_20221113T045849_20221113T050012_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_20221113T063101_20221113T063749_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_20221113T063749_20221113T064044_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_20221113T081224_20221113T081642_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_20221113T081642_20221113T081751_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_20221113T095021_20221113T095237_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_20221113T095237_20221113T095656_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_20221113T112959_20221113T113614_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_20221113T131136_20221113T131626_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_20221113T144909_20221113T145824_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_20221113T162850_20221113T163720_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_20221113T181000_20221113T181749_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_20221113T194910_20221113T195625_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_20221113T210354_20221113T210607_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20221113T212825_20221113T213524_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_20221113T230706_20221113T231421_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221113T015205_20221113T015550_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20 Hz)

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

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

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

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

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Number of	products with errors:	

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221113T001808_20221113T003925_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_20221113T003944_20221113T004035_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221113T005633_20221113T012357_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_20221113T015610_20221113T021957_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_20221113T022324_20221113T022825_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_20221113T023659_20221113T030949_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_20221113T032227_20221113T032435_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_20221113T033517_20221113T034218_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_20221113T035513_20221113T035830_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_20221113T040324_20221113T040858_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_20221113T041623_20221113T044854_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_20221113T050154_20221113T050308_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_20221113T052130_20221113T053704_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_20221113T054246_20221113T054755_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_20221113T055455_20221113T063000_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_20221113T065233_20221113T065653_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_20221113T065749_20221113T071527_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_20221113T073432_20221113T074929_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_20221113T075601_20221113T080852_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_20221113T081035_20221113T081041_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_20221113T082256_20221113T084052_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_20221113T084215_20221113T085611_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_20221113T090409_20221113T090610_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_20221113T090717_20221113T091112_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_20221113T091315_20221113T092830_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_20221113T093032_20221113T093955_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_20221113T095805_20221113T095914_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_20221113T100233_20221113T101856_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_20221113T103500_20221113T103733_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_20221113T104215_20221113T105015_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_20221113T105313_20221113T110738_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_20221113T112136_20221113T112154_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_20221113T112321_20221113T112401_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_20221113T114328_20221113T121713_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_20221113T122050_20221113T122259_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_20221113T122325_20221113T122902_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_20221113T123305_20221113T125650_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_20221113T132845_20221113T135535_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_20221113T140300_20221113T140737_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_20221113T141219_20221113T143903_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_20221113T144651_20221113T144909_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_20221113T150242_20221113T153358_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_20221113T154211_20221113T154744_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_20221113T155134_20221113T155531_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_20221113T162640_20221113T162849_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_20221113T164127_20221113T171419_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_20221113T172115_20221113T172628_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_20221113T173200_20221113T174811_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_20221113T180609_20221113T180629_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_20221113T181815_20221113T184032_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_20221113T184142_20221113T185303_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_20221113T185739_20221113T190115_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_20221113T190133_20221113T190530_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_20221113T191029_20221113T193632_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_20221113T193650_20221113T194401_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_20221113T194520_20221113T194800_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_20221113T195857_20221113T201053_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_20221113T201657_20221113T203245_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_20221113T204021_20221113T204028_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_20221113T204034_20221113T204233_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_20221113T205100_20221113T210354_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_20221113T210608_20221113T212312_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_20221113T213631_20221113T213635_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_20221113T213649_20221113T213835_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_20221113T214529_20221113T215429_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_20221113T215431_20221113T215555_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_20221113T215734_20221113T221121_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_20221113T221423_20221113T221927_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_20221113T222759_20221113T222857_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_20221113T223655_20221113T223951_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_20221113T224735_20221113T224946_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_20221113T225109_20221113T225820_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_20221113T232823_20221113T233208_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_20221113T233330_20221113T235023_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_20221113T235432_20221113T235844_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_20221113T235906_20221114T000055_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_20221113T204233_20221113T204426_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_20221113T225820_20221113T225943_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz PLRM)

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

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

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

93

Number of products with errors:

Product

Description

0.1.1_BE_DOM_E_RED     0000 Alteres Rep_Calls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Register Charls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Register Charls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Register Charls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Alteres Rep_Calls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Alteres Rep_Calls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Alteres Rep_Calls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Alteres     In 2000 Register Charls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Alteres     In 2000 Register Charls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Alteres     In 2000 Register Charls     In 2000 Register Charls       0.2_0FL_BE_DOM_E_RED     In 2000 Register Charls     In 2000 Register Charls	CS_OFFL_SIR_GOPN_2_20221113T000230_20221113T000302_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
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COUNTLONGUARD         COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION           COURT ESTIMATION         COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION           CS OFFL SIR COUNT 2 202211131002812 COURT ID COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION           CS OFFL SIR COUNT 2 202211131002812 COURT ID COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION           CS OFFL SIR COUNT 2 202211131002812 COURT ID COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION           CS OFFL SIR COUNT 2 202211131002812 COURT ID COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION           CS OFFL SIR COUNT 2 202211131002812 COURT ID TOTAGED COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION           CS OFFL SIR COUNT 2 202211131002812 COURT ID TOTAGED COURT ESTIMATION         COURT ESTIMATION         The COURT ESTIMATION ESTI	CS_OFFL_SIR_GOPN_2_20221113T023201_20221113T023337_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Op/End/Set/Comment/Comm	CS_OFFL_SIR_GOPN_2_20221113T030949_20221113T031122_C001		
OCCUT_GRUGOPT_CALL         DOOD Relationary         more records           CB_OPT_SRI_GOPT_2_SRI_GOPT_2_CO221113T050003_C001         DOOD Attractor Regin Quality FLMA.         The COOD Range and Backscatter Quality Flags have been set for one or more records           CB_OPT_SRI_GOPT_2_22221113T050003_C001         DOOD Attractor Regin Quality FLMA.         The COOD Range and Backscatter Quality Flags have been set for one or more records           CB_OPT_SRI_GOPT_2_22221113T050052_D0221113T055108_C001         DOOD Attractor Regin Quality FLMA.         The COOD Range and Backscatter Quality Flags have been set for one or more records.           CB_OPT_SRI_GOPT_2_20221113T05108_D0221113T072400_C001         DOOD Attractor Regin Quality FLMA.         The COOD Range and Backscatter Quality Flags have been set for one or more records.           CB_OPT_SRI_GOPT_2_20221113T072519_20221113T072400_C001         DOOD Attractor Regin Quality FLMA.         The COOD Range and Backscatter Quality Flags have been set for one or more records.           CB_OPT_SRI_GOPT_2_20221113T072520_C0011         DOOD Attractor Regin SIAN, SVH ord Backscatter Quality Flags have been set for one or more records.         The Quality Flags have been set for one or more records.           CB_OPT_SRI_GOPT_2_20221113T072520_C0011         DOOD Attractor Regin SIAN, SVH ord Backscatter Quality Flags have been set for one or records.           CB_OPT_SRI_GOPT_2_20221113T08424_Q0011         DOOD Attractor Regin SIAN, SVH ord Backscatter Quality Flags have been set for one or records.           CB_OPT_SRI_GOPT_2_20221113T08444_Q0011         DOOD Attra	CS_OFFL_SIR_GOPN_2_20221113T034218_20221113T034552_C001		
DCPL_SIP_COPP_2_REQUIT_ST00000_2_0021113100000_0001         DOOD Reakecentr Claimy         more records           CS_OFFL_SIP_COPP_2_R0211131100000_0001         COOD Administr Range Claimty FIRAL         The OCOO Range and Backacellar Claimty Flags           CS_OFFL_SIP_COPP_2_R02211131100000_0001         COOD Administr Range Claimty FIRAL         The OCOO Range and Backacellar Claimty Flags           CS_OFFL_SIP_COPP_2_R022111311072618_00211131072618_0021         COOD Administr Range Claimty FIRAL         The OCOO Range and Backacellar Claimty Flags           CS_OFFL_SIP_COPP_2_R02211131072618_00211131072618_0021         COOD Administr Range Claimty FIRAL         The OCOO Range and Backacellar Claimty Flags have been set for one or none scores           CS_OFFL_SIP_COPP_2_R02211131072618_00211131072618_0021         COOR Administr Range SIPAL SWH PLIMA         The OCOO Range and Backacellar Claimty Flags have been set for one or none scores           CS_OFFL_SIP_COPP_2_R02211131072618_0021         COOR Administr Range SIPAL SWH PLIMA         The OCOO Range and Backacellar Claimty Flags have been set for one or none scores           CS_OFFL_SIP_COPP_2_R02211131070125_0021         COME Administr Range SIPAL SWH PLIMA         The OCOO Range and Backacellar Claimty Flags have been set for one or none scores           CS_OFFL_SIP_COPP_2_R02211131108016_00211131108016_001         COME Administr Range Claimty Flags have been set for one or none scores           CS_OFFL_SIP_COPP_2_R02211131108016_00211131108016_001         COOO Administr Range Claimty Flimty Flags have been set for one or none scores	CS_OFFL_SIR_GOPN_2_20221113T050811_20221113T050833_C001		
Concerner         Concerner <t< td=""><td>CS_OFFL_SIR_GOPN_2_20221113T050852_20221113T050903_C001</td><td></td><td></td></t<>	CS_OFFL_SIR_GOPN_2_20221113T050852_20221113T050903_C001		
C6       OFFL_SIR_GOPN_2_20221113T054755_20221113T05516_0001       and flaskscatter Cuality PLEM_COCO       interference and Backscatter Cuality PLEM_COCO         C6       OFFL_SIR_GOPN_2_20221113T072219_20221113T072459_0001       CCCO Altrineter Rango Cuality PLEM_COCO       The OCOCR Range and Backscatter Cuality PLEM_COCO         C6       OFFL_SIR_GOPN_2_20221113T072559_00221113T073250_0001       Attempt Rango Cuality PLEM_COCO       The OCOCR Range and Backscatter Cuality FLegs have been set for one or	CS_OFFL_SIR_GOPN_2_20221113T050913_20221113T050950_C001		
Construct SPI, GOPN 2, 2022111310/2219.202211131072830, CO01     Construction Calling Figs. SPIA, SVH and Backscatter Cal	CS_OFFL_SIR_GOPN_2_20221113T054755_20221113T055106_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_GOPN_2_20221113T092659_20221113T109220_20221113T1092251_2001       Inst Backscatter Quality PLIM, OCG       Inst Backscatter Quality PLIM, OCG         GS_OFFL_SIR_GOPN_2_20221113T091251_20021       Coan Alimeter Range, SBHA, SWH       The Ocean Alimeter Range, SBHA, SWH         GS_OFFL_SIR_GOPN_2_20221113T091251_20021       Coan Alimeter Range, SBHA, SWH       The OCGA Alimeter Range, SBHA, SWH         GS_OFFL_SIR_GOPN_2_20221113T09355_20221113T094243_C001       Coan Alimeter Range, SBHA, SWH       The OCGA Alimeter Range, SBHA, SWH         GS_OFFL_SIR_GOPN_2_20221113T09355_20221113T094243_C001       Coccan Alimeter Range, SBHA, SWH       The OCGA Alimeter Range Alimeter Range Alimeter Range Alimeter Range Alimeter Range and Backscatter Quality Flags have been set for one or more records         GS_OFFL_SIR_GOPN_2_20221113T1095915_20221113T100047_C001       COCCA Alimeter Range Quality PLIM,       The OCGG Range and Backscatter Quality Flags have been set for one or more records         GS_OFFL_SIR_GOPN_2_20221113T1095915_20221113T106204_C001       COCCA Alimeter Range Quality PLIM,       The OCGG Range and Backscatter Quality Flags have been set for one or more records         GS_OFFL_SIR_GOPN_2_20221113T110505_20221113T1105204_C001       COCCA Alimeter Range Quality PLIM,       The OCCGG Range and Backscatter Quality Flags have been set for one or more records         GS_OFFL_SIR_GOPN_2_20221113T1132065_20221113T114206_C001       COCCA Alimeter Range Quality PLIM,       The OCCGG Range and Backscatter Quality Flags have been set for one or more records         GS_OFFL_SIR_GOPN_2	CS_OFFL_SIR_GOPN_2_20221113T072219_20221113T072459_C001		
CS_OFFL_SIR_GOPN_2_20221113T09112_20221113T09125_C001       and Backscatter Quality PLRM_OCCO_ Attemeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T093955_20221113T094243_C001       DCean Attemeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T09595_20221113T10964243_C001       DCCean Attemeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T1095915_20221113T100047_C001       DCCOA Attemeter Range Quality PLRM, CCOG Backscatter Quality       The OCCOA Ranteer Range Attempt and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T103950_20221113T100247_C001       OCCOA Attemeter Range Quality PLRM, CCOG Backscatter Quality       The OCCOA Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T103950_20221113T10224_C001       OCCOA Attemeter Range Quality PLRM, COCOB Backscatter Quality       The OCCOA Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T1112012_0021113T110210_C001       OCCOA Attemeter Range, SSHA, SWH and Range Range Quality PLRM, COCOB Backscatter Quality       The OCCOA Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T113212_0C201113T112012_0C201113T112012_0C201113T112012_0C201113T112012_0C201113T112012_0C201113T112012_0C201113T112012_0C201113T112012_0C201113T112012_0C201113T112012_0C20111_0CCCGA Range and Backscatter Quality Flags have been set for	CS_OFFL_SIR_GOPN_2_20221113T072659_20221113T073230_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20221113T093955_20221113T094243_C001       And Backscatter Quality PLRM.       The OCOG Alimeter Range and Backscatter Quality PLRM.         CS_OFFL_SIR_GOPN_2_20221113T095915_20221113T1094243_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T103590_20221113T104215_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T103590_20221113T104215_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T103590_20221113T104215_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T11020_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T113T11200_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T113T11200_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T113208_C001       OCOG Alimeter Range Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20221113T091112_20221113T091251_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_a022111311009915_00221113110004_C001         OCOG Backscatter Quality         Inore records           CS_OFFL_SIR_GOPN_2_a02211131103950_202211131104215_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_a02211131105015_202211131105204_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_a02211131111720_202211131112109_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_a02211131113014_202211131114206_C001         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set for one or more records           CS_OFFL_SIR_GOPN_2_a022111311122902_a02211131112206_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_a02211131122902_a0221113112096_0001         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_a02211131130948_20221113113008_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_20221113T093955_20221113T094243_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20221113T10399_20221113T105204_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPN_2_20221113T105015_20221113T1105204_C001       OCOG Alimeter Range Quality PLRM, COG Backscatter Quality PLRM, COG Backscatter Quality PLRM, COG Backscatter Quality PLRM, COG Backscatter Quality PLRM, COG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, QCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, QCOG Alimeter Range, and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T113614_20221113T114206_C001       OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, QCOG Alimeter Range, and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T1122902_20221113T1132126_C001       OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T122902_20221113T1131065_C001       OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T122902_20221113T130053_C001       OCOG Alimeter 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_20221113T130048_20221113T130053_C001       OCOG Alimeter 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_20221113T130048_20221113T132035_C001	CS_OFFL_SIR_GOPN_2_20221113T095915_20221113T100047_C001		
CS_OFFL_SIR_GOPN_2_20221113T110203_2001       OCOG Backscatter Quality       Inore records         CS_OFFL_SIR_GOPN_2_20221113T11120_20221113T112103_C001       OCOG Altimeter Range Quality PLRM, COCOG       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T113E14_20221113T114206_C001       Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T1122902_20221113T1122126_C001       OCOG Altimeter Range Quality PLRM, COCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T122902_20221113T123126_C001       OCOG Altimeter Range Quality PLRM, COCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T125904_20221113T1120053_C001       OCOG Altimeter Range Quality PLRM, COCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T130048_20221113T131008_C001       OCOG Altimeter Range Quality PLRM, COCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T1310048_20221113T132035_C001       OCOG Altimeter Range Quality PLRM, COCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T132035_C001       OCOG Altimeter Range Quality PLRM, CCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_	CS_OFFL_SIR_GOPN_2_20221113T103950_20221113T104215_C001		
OS_OFFL_SIR_GOPN_2_20221113111200_20211131112105_0001       OCOG Backscatter Quality       more records         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records       The OCOG Range and Backscatter Quality Flags have been set for one or more records         OS_OFFL_SIR_GOPN_2_20221113T122902_20221113T123126_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_20221113T125904_20221113T10053_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_20221113T130948_20221113T130053_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_20221113T130948_20221113T131008_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_20221113T131026_20221113T132035_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_20221113T132102_20221113T132243_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on	CS_OFFL_SIR_GOPN_2_20221113T105015_20221113T105204_C001		
CS_OFFL_SIR_GOPN_2_20221113T113614_20221113T114206_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T122902_20221113T123126_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_20221113T122902_20221113T123005_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_20221113T130048_20221113T130053_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_20221113T130048_20221113T131008_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_20221113T131626_20221113T132035_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_20221113T13202_20221113T132243_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPN_2_20221113T132243_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Qualit	CS_OFFL_SIR_GOPN_2_20221113T111720_20221113T112103_C001		
CS_OFFL_SIR_GOPN_2_202211131122902_202211131123126_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPN_2_20221113T125904_20221113T130053_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_20221113T130948_20221113T131008_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_20221113T1310948_20221113T131008_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_20221113T131626_20221113T132035_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_20221113T132120_20221113T132243_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_20221113T13220_20221113T132243_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20221113T113614_20221113T114206_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20221113T123904_20221113T130053_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPN_2_20221113T130948_20221113T131008_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_20221113T131626_20221113T132035_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_20221113T132120_20221113T132243_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_20221113T132120_20221113T132243_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_20221113T13220_20221113T132243_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_20221113T122902_20221113T123126_C001		
CS_OFFL_SIR_GOPN_2_20221113T130948_20221113T13008_0011       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPN_2_20221113T131626_20221113T132035_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_20221113T132120_20221113T132243_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_20221113T132243_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_20221113T132232_20221113T132825_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20221113T125904_20221113T130053_C001		
CS_OFFL_SIR_GOPN_2_20221113T13226_20221113T132243_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPN_2_20221113T132120_20221113T132243_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_20221113T132243_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_20221113T130948_20221113T131008_C001		
CS_OFFL_SIR_GOPN_2_202211131132120_202211131132243_0001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20221113T131626_20221113T132035_C001		
	CS_OFFL_SIR_GOPN_2_20221113T132120_20221113T132243_C001		
	CS_OFFL_SIR_GOPN_2_20221113T132332_20221113T132825_C001		

CS_OFFL_SIR_GOPN_2_20221113T135831_20221113T140013_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_20221113T140121_20221113T140300_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_20221113T140738_20221113T140830_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_20221113T145824_20221113T150242_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_20221113T153838_20221113T154211_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_20221113T154744_20221113T154900_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_20221113T163720_20221113T163903_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_20221113T164018_20221113T164127_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_20221113T171754_20221113T172115_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_20221113T172628_20221113T172752_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_20221113T174811_20221113T175132_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_20221113T185506_20221113T185739_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_20221113T190530_20221113T190639_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_20221113T203317_20221113T203457_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_20221113T204233_20221113T204426_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_20221113T214159_20221113T214528_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_20221113T222912_20221113T222950_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_20221113T223348_20221113T223618_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_20221113T223952_20221113T224521_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_20221113T230154_20221113T230706_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_20221113T235140_20221113T235432_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_20221112T235713_20221113T000230_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_20221113T000303_20221113T000417_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_20221113T004035_20221113T004308_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_20221113T005445_20221113T005633_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_20221113T013516_20221113T014532_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_20221113T023337_20221113T023658_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_20221113T031310_20221113T032044_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_20221113T033259_20221113T033346_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_20221113T035831_20221113T040208_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_20221113T041217_20221113T041623_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_20221113T050431_20221113T050750_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_20221113T050951_20221113T051317_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_20221113T053704_20221113T054126_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_20221113T055106_20221113T055454_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_20221113T063749_20221113T064044_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_20221113T071527_20221113T072219_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_20221113T081224_20221113T081642_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_20221113T085611_20221113T090132_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_20221113T091251_20221113T091315_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_20221113T095021_20221113T095237_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_20221113T110953_20221113T111357_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_20221113T111415_20221113T111553_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_20221113T112959_20221113T113614_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_20221113T114317_20221113T114328_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_20221113T131008_20221113T131103_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_20221113T131136_20221113T131626_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_20221113T135535_20221113T135831_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_20221113T144544_20221113T144651_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_20221113T144909_20221113T145824_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_20221113T153359_20221113T153838_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_20221113T154900_20221113T155134_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_20221113T162220_20	0221113T162534_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_20221113T162850_20	0221113T163720_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_20221113T163911_20	0221113T164018_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_20221113T171419_20	0221113T171754_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_20221113T172753_20	0221113T173200_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_20221113T180147_20	0221113T180609_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_GOPR_2_20221113T180629_20	0221113T180839_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_20221113T181000_20	0221113T181749_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_20221113T181801_20	0221113T181815_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
L2 Quality Flags (1 Hz & 1 Hz PLRM)	)		
Currently, there are several common flags rai	sed in the Level 2 products, w	which are summarised below.	
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: T	hese flags are currently set for	products over sea ice, which is to be expected	d.
Number of products with errors:	180		
5.8 L2 Ocean Retracking Quality	Check		
5.8 L2 Ocean Retracking Quality L2 Retracking Flags (20 Hz)	Check		
		ement record. The bit value of this flag indica	ates any problems when set.
L2 Retracking Flags (20 Hz) CryoSat L2 data includes an ocean retracking qu	ality flag for each 20 Hz measur	-	ates any problems when set. number of products with this error flag set is given below.
L2 Retracking Flags (20 Hz) CryoSat L2 data includes an ocean retracking qu	ality flag for each 20 Hz measur	-	
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L2 Retracking Flags (20 Hz)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag: This flag is cur         Number of products with errors:         L2 Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag (PLRM): This fl         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the s         Number of products with errors:         6.2 P2P Product Header Analysis         For all products, a series of pre-defined checks a         Number of products with errors:         6.3 P2P Auxiliary Data File Usage	ality flag for each 20 Hz measur rently set for products over land 60 ality flag for each 20 Hz PLRM r lag is currently set for products 0 144 <b>6. GOP L2</b> clience server, is checked to enc 0 s re performed on the MPH and S 0 <b>e Check</b>	I and sea ice, but this is to be expected. The measurement record. The bit value of this fla GOPR and GOPN products over sea ice, but Pole-to-Pole Data Quality sure it consists of both an XML header file (.1	number of products with this error flag set is given below. g indicates any problems when set. this is to be expected. / Check HDR) and a NetCDF product file (.nc). nd/or errors raised by the ground-segment processing chain.
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L2 Retracking Flags (20 Hz)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag: This flag is cur         Number of products with errors:         L2 Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag (PLRM): This fl         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the s         Number of products with errors:         6.2 P2P Product Header Analysis         For all products, a series of pre-defined checks a         Number of products with errors:         6.3 P2P Auxiliary Data File Usage         Each product is checked for missing Data Set De         Number of products with errors:         6.4 P2P Auxiliary Correction Error         For all products, the auxiliary corrections within th         Currently, there are some common auxiliary of         For with there are some common auxiliary of         For with the corrections: Currently the followed by a table highlighting any additional set of	ality flag for each 20 Hz measur rently set for products over land 60 ality flag for each 20 Hz PLRM r lag is currently set for products ( 144 <b>6. GOP L2</b> clence server, is checked to enc 0 c clence server, is checked to enc 0 <b>5</b> re performed on the MPH and S 0 <b>6</b> <b>Check</b> ascriptors with respect to a pre- 0 <b>6</b> <b>7</b> <b>Check</b> ne Geophysical Group are check correction errors raised in the al issues that may arise from to lowing corrections are not comp	I and sea ice, but this is to be expected. The measurement record. The bit value of this fla GOPR and GOPN products over sea ice, but Pole-to-Pole Data Quality sure it consists of both an XML header file (.I SPH in order to identify any inconsistencies a determined baseline and also to check the va ked for the default error value (32767). Level 2 products that are expected, due t this test. uted over CONTINENTAL ICE: Dry Tropospi	number of products with this error flag set is given below. g indicates any problems when set. this is to be expected.  C Check  HDR) and a NetCDF product file (.nc).  Ind/or errors raised by the ground-segment processing chain.  Iidity of Auxiliary Data Files is correct.
L2 Retracking Flags (20 Hz)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag: This flag is cur         Number of products with errors:         L2 Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag (PLRM): This fl         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the s         Number of products with errors:         6.2 P2P Product Header Analysis         For all products, a series of pre-defined checks a         Number of products with errors:         6.3 P2P Auxiliary Data File Usage         Each product is checked for missing Data Set De         Number of products, with errors:         6.4 P2P Auxiliary Correction Error         For all products, the auxiliary corrections within th         Currently, there are some common auxiliary of followed by a table highlighting any additional >         > ECMWF Meteo Corrections: Currently the foll Correction and the U-Wind and V-Wind component	ality flag for each 20 Hz measur rently set for products over land 60 ality flag for each 20 Hz PLRM r lag is currently set for products ( 144 <b>6. GOP L2</b> cleance server, is checked to enc 0 c cleance server, is checked to enc 0 <b>5</b> re performed on the MPH and S 0 <b>6</b> <b>Check</b> ascriptors with respect to a pre- 0 <b>7</b> <b>Check</b> ne Geophysical Group are check correction errors raised in the al issues that may arise from to lowing corrections are not comp ents of the ECMWF model wind	I and sea ice, but this is to be expected. The measurement record. The bit value of this fla GOPR and GOPN products over sea ice, but Pole-to-Pole Data Quality sure it consists of both an XML header file (.I SPH in order to identify any inconsistencies a determined baseline and also to check the value ked for the default error value (32767). Level 2 products that are expected, due t this test. uted over CONTINENTAL ICE: Dry Tropospi vector. This is a known anomaly (CRYO-CO	number of products with this error flag set is given below.  g indicates any problems when set. this is to be expected.  Check  IDR) and a NetCDF product file (.nc).  IdPR) and a NetCDF product file (.nc).  Id(or errors raised by the ground-segment processing chain.  Id(or err
L2 Retracking Flags (20 Hz)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag: This flag is cur         Number of products with errors:         L2 Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag (PLRM): This fl         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the s         Number of products with errors:         6.2 P2P Product Header Analysis         For all products, a series of pre-defined checks a         Number of products with errors:         6.3 P2P Auxiliary Data File Usage         Each product is checked for missing Data Set De         Number of products with errors:         6.4 P2P Auxiliary Correction Error         For all products, the auxiliary corrections within th         Currently, there are some common auxiliary of         For with errors:         6.4 P2P Auxiliary Corrections: Currently the foll         Correction and the U-Wind and V-Wind component of reported in the table below.	ality flag for each 20 Hz measur rently set for products over land 60 ality flag for each 20 Hz PLRM r lag is currently set for products ( 144 <b>6. GOP L2</b> cleance server, is checked to enco 0 cleance server, is checked to enco 0 clea	I and sea ice, but this is to be expected. The measurement record. The bit value of this fla GOPR and GOPN products over sea ice, but Pole-to-Pole Data Quality sure it consists of both an XML header file (.1 SPH in order to identify any inconsistencies a determined baseline and also to check the value sed for the default error value (32767). Level 2 products that are expected, due t his test. uted over CONTINENTAL ICE: Dry Tropospi vector. This is a known anomaly (CRYO-CO roducts over sea ice, but this is to be expected	number of products with this error flag set is given below.  g indicates any problems when set. this is to be expected.  C Check  HDR) and a NetCDF product file (.nc).  Idd/or errors raised by the ground-segment processing chain.
L2 Retracking Flags (20 Hz)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag: This flag is cur         Number of products with errors:         L2 Retracking Flags (20 Hz PLRM)         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Guality Flag (PLRM): This fl         CryoSat L2 data includes an ocean retracking qu         Ocean Retracking Quality Flag (PLRM): This fl         Number of products with errors:         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the st         Number of products with errors:         6.2 P2P Product Header Analysis         For all products, a series of pre-defined checks at         Number of products with errors:         6.3 P2P Auxiliary Data File Usage         Each product is checked for missing Data Set De         Number of products with errors:         6.4 P2P Auxiliary Correction Error         For all products, the auxiliary corrections within th         Currently, there are some common auxiliary of followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the foll Correction and the U-Wind and V-Wind component not reported in the table below.         > Sea State Bias & Sea State Bias PLRM: The	ality flag for each 20 Hz measur rently set for products over land 60 ality flag for each 20 Hz PLRM r lag is currently set for products ( 144 <b>6. GOP L2</b> cleance server, is checked to enco 0 cleance server, is checked to enco 0 clea	I and sea ice, but this is to be expected. The measurement record. The bit value of this fla GOPR and GOPN products over sea ice, but Pole-to-Pole Data Quality sure it consists of both an XML header file (.1 SPH in order to identify any inconsistencies a determined baseline and also to check the value sed for the default error value (32767). Level 2 products that are expected, due t his test. uted over CONTINENTAL ICE: Dry Tropospi vector. This is a known anomaly (CRYO-CO roducts over sea ice, but this is to be expected	number of products with this error flag set is given below.  g indicates any problems when set. this is to be expected.  C Check  HDR) and a NetCDF product file (.nc).  Idd a NetCDF product file (.nc).  Idd a NetCDF product file (.nc).  Idd a NetCDF product file sis correct.  Idd b a common flags are summarised in the list below, neric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ed.

Product	Test Failed	Description
CS OFFE SIR GOP 2 202211121235950 202211131004927 CO01		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_220221113T004927_20221113T013904_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_220221113T013904_20221113T022841_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_20221113T022841_20221113T031819_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_220221113T031819_20221113T040756_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_220221113T040756_20221113T045734_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_220221113T045734_20221113T054711_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_20221113T054711_20221113T063648_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220221113T063648_20221113T072625_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_20221113T072625_20221113T081603_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_220221113T081603_20221113T090540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220221113T090540_20221113T095517_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_20221113T095517_20221113T104454_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_20221113T104454_20221113T113432_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_220221113T113432_20221113T122409_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_20221113T122409_20221113T131347_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_20221113T131347_20221113T140324_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20221113T140324_20221113T145302_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_220221113T145302_20221113T154239_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20221113T154239_20221113T163216_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_20221113T163216_20221113T172153_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_20221113T172153_20221113T181131_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_20221113T181131_20221113T190108_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_220221113T190108_20221113T195046_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_220221113T195046_20221113T204022_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_220221113T204022_20221113T213000_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220221113T213000_20221113T221937_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_20221113T221937_20221113T230915_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_20221113T230915_20221113T235852_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

## 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220221113T013904_20221113T022841_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 (20 Hz)	
CryoSat P2P data includes Quality Flags for	r each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.
Since the P2P Quality Flags are copied d	lirectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	29
P2P Quality Flags (20 Hz PLRM)	
Since the P2P Quality Flags are copied d	lirectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	28
DOD Quality Flama (1 Hz 9 1 Hz F	PLRM)
P2P Quality Flags (1 Hz & 1 Hz F	
	irrectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
	-
Since the P2P Quality Flags are copied of Number of products with errors: 6.8 P2P Ocean Retracking Qu	lirectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Since the P2P Quality Flags are copied of Number of products with errors: 6.8 P2P Ocean Retracking Qu P2P Retracking Flags (20 Hz)	lirectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Since the P2P Quality Flags are copied of Number of products with errors: 6.8 P2P Ocean Retracking Qu P2P Retracking Flags (20 Hz) Cryosat P2P data includes an ocean retrack	lirectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. 29 Jality Check
Since the P2P Quality Flags are copied of Number of products with errors: 6.8 P2P Ocean Retracking Qu P2P Retracking Flags (20 Hz) Cryosat P2P data includes an ocean retrack	lirectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. 29 Iality Check king quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
Since the P2P Quality Flags are copied of Number of products with errors: 6.8 P2P Ocean Retracking Qu P2P Retracking Flags (20 Hz) Cryosat P2P data includes an ocean retrack Ocean Retracking Quality Flag (PLRM): 1	Irrectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. 29 Iality Check Ining quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set. This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.
Since the P2P Quality Flags are copied of Number of products with errors: 6.8 P2P Ocean Retracking Qu P2P Retracking Flags (20 Hz) Cryosat P2P data includes an ocean retrack Ocean Retracking Quality Flag (PLRM): 1 Number of products with errors: P2P Retracking Flags PLRM	Irrectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. 29 Iality Check Ining quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set. This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.
Since the P2P Quality Flags are copied of Number of products with errors: 6.8 P2P Ocean Retracking Qu P2P Retracking Flags (20 Hz) Cryosat P2P data includes an ocean retrack Ocean Retracking Quality Flag (PLRM): T Number of products with errors: P2P Retracking Flags PLRM CryoSat L2 data includes an ocean retracking	lirectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. 29 Iality Check Ising quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set. This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected. 29

## 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	192	192	4	188	0
SIR_GOPR1B	120	120	0	120	0
SIR_GOPN1B	103	103	3	100	0
SIR_GOPM_2	192	192	141	51	0
SIR_GOPR_2	120	120	33	86	1
SIR_GOPN_2	103	103	43	60	0
SIR_GOP_P2P	29	29	0	28	1

## 7.1 QCC Errors

## Number of QCC reports with errors:

	Total number of occurrences of each error										
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	1	1	1	1							

2

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

## 7.2 QCC Warnings

lumber of QCC repo	orts with warnings	2300	<b>T</b>				
Product Type	BCSHNCDF	IOHHMOOR	I otal numi MVIOEPFDNCDF	ber of occurrences of e	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
SIR GOPM1B	188	0	0	0	0	0	0
SIR GOPM 2	0	0	39	37	0	43	0
SIR GOPN1B	100	0	0	0	0	0	0
SIR GOPN 2	0	0	8	32	5	23	26
SIR GOPR1B	117	0	0	0	0	0	0
SIR_GOPR_2	0	1	42	44	2	39	25
	*	*			*		
Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNO	RPEPOPFDPLRMSINNC	RPEPOPFDSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	36	0	0	31	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	18	19	0	0	0	21	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	14	24	1	0	50	0	60
	·	·		·	·		
Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	24	0	0	9	32	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	29	0	0	27	20	41	48
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	0	46	0	2	67	45
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_GOPM1B	0	0	0	0	1	0	0
SIR_GOPM_2	7	38	0	4	1	0	0
SIR_GOPN1B	0	0	0	0	0	0	48
SIR_GOPN_2	31	25	27	12	0	0	0
SIR_GOPR1B	0	0	0	0	0	0	120
SIR_GOPR_2	10	47	54	3	0	4	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	17	29	29	7	29	17	28
Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_GOP_2_	26	1	17	29	21	19	29
	·		·				
Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR GOP 2	19	25	29	17	16	29	

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

1

L1B and L2 Product name n/a

P2P Product name CS\_OFFL\_SIR\_GOP\_2\_20221113T230915\_20221113T235852\_C002