

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

<u>07/07/2022</u>

# IDEAS-QAHEO

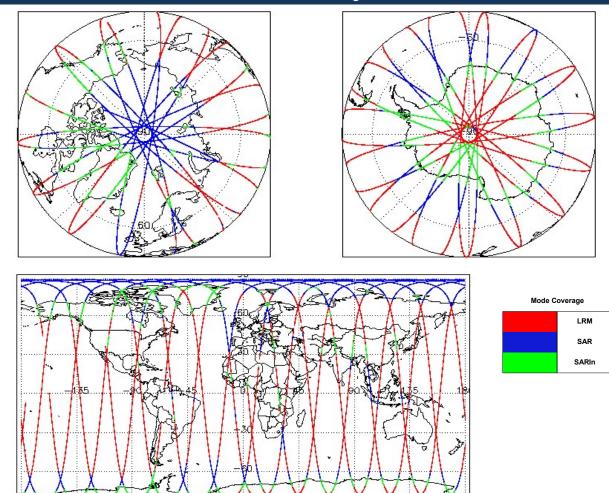
Report Production: 05-Aug-2022	Check	L1 & L2	P2P	
Report Froduction.	03-Aug-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CruceSet Occor Brasses	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
FIOCESSOI USEU.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.1
		-		
lission / Instrument Ne	ws			
06-Jul-2022 None				
07-Jul-2022 None				

1. Overview

Jul-2022 Jul-2022	None
Jul-2022	None

08-Jul-2022 Nothing planned

2. Global Coverage



# 3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

# 4. GOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

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).

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

L1B Processing Quality HR: The 11b\_proc\_flag\_hr flag is currently set all L1B GOPR and GOPN products because the 11b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

## 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

## 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

## 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220707T172622_20220707T172657_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220707T173315_20220707T174033_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

## 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220707T025722_20220707T031732_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220707T040709_20220707T042221_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220707T010751_20220707T011028_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220707T042300_20220707T042602_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220707T042706_20220707T042920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220707T160722_20220707T160835_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220707T161003_20220707T161226_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220707T210846_20220707T211340_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220707T222719_20220707T222920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220707T065042_20220707T065332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220707T101002_20220707T101231_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220707T111432_20220707T111802_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220707T192211_20220707T192635_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. GOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### 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:

## 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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Description         Description         Description           0.0000.000000000000000000000000000000			
Color of the standard and and a color of the standard in the	Product CS_OFFL_SIR_GOPM_2_20220707T075557_20220707T075722_C001		
QL_GHT_GREAGENT_200220071191782_20220771191782_20001       Peakewise, Dealer Table (Control Table (Contro) Control Table (Control Table (Control Table (Control T	CS_OFFL_SIR_GOPM_2_20220707T152401_20220707T153900_C001	Mean Dynamic Topography (1)	
Control         Traggary (1)         Traggary (2)         Traggary (2)           Ci OFIL SR GOPL 2.2020/07/02/28 / 2020/07/102/01 (2001)         Man Bo Schwart Traggary (3)         Traggary (1)         Traggary (2)           Ci OFIL SR GOPL 2.2020/07/102/01 (2001)         Man Bo Schwart Traggary (3)         Traggary (3)         Traggary (4)           Ci OFIL SR GOPL 2.2020/07/102/01 (2001)         Man Bo Schwart (3)         Traggary (4)         Traggary (4)           Ci OFIL SR GOPL 2.2020/07/102/01 (2001)         Man Bo Schwart (3)         Traggary (4)         Traggary (4)           Ci OFIL SR GOPL 2.2020/07/102/01 (2001)         Man Bo Schwart (3)         Traggary (4)         Traggary (4)           Ci OFIL SR GOPL 2.2020/07/102/01 (2001)         Man Bo Schwart (3)         Traggary (4)         Traggary (4)           Ci OFIL SR GOPL 2.2020/07/102/01 (2001)         Man Bo Schwart (3)         Traggary (4)         Traggary (4)           Ci OFIL SR GOPL 2.2020/07/102/01 (2001)         Man Bo Schwart (3)         Traggary (4)         Traggary (4)           Ci OFIL SR GOPL 2.2020/07/102/01 (2002)         Man Bo Schwart (3)         Traggary (4)	CS_OFFL_SIR_GOPM_2_20220707T191725_20220707T191759_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and
Carl, Ser, Gold, Carl, Ser, Course, Landow Handle, Sonto         Main Bia Strateging (B)	CS_OFFL_SIR_GOPN_2_20220707T001839_20220707T002158_C001	Mean Sea Surface (1), Mean Dynamic	
GL_OPFL_SR_GOPFL_2.322007T101051_222007T101051_222007T101051_202007T1010201_202007T1101020_202007T1101020_202007T1101020_202007T1101020_202007T1101020_202007T1101020_202007T1101020_202007T1101020_202007T1101020_202007T1101020_202007T1101010_20202007T110101_202007T1101020_202007T1101020_202007T1101020_2	CS_OFFL_SIR_GOPN_2_20220707T002726_20220707T002851_C001	Mean Dynamic Topography (1)	
Concerning of the second of the Sec	CS_OFFL_SIR_GOPN_2_20220707T010751_20220707T011028_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean
Topography (1)         Topography (1)         Topography (1)         Topography (1)           CS. OFFL. SIR. GOPI. 2.20220707103342, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103345, 20220707103456, 20220707103456, 20220707103456, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 20220707104206, 2022070710406, 20220707110407, 20020707110407, 20020707111047, 20020707111	CS_OFFL_SIR_GOPN_2_20220707T011031_20220707T011106_C001		
Traggraph (1)         Traggraph (2)         Traggrap	CS_OFFL_SIR_GOPN_2_20220707T020530_20220707T020710_C001		
Corp. Corp. Set Corp.         Set Corp. Set	CS_OFFL_SIR_GOPN_2_20220707T024908_20220707T025005_C001		
Concernence         Topography (n)         Topography (n)         Topography (n)           C3_OFFL_SIR_GOPN_2_20220707164226_2020107164226_0001         Mean Ses Sudded (1). Mean Dynamic Topography (n)         There is a nerror with the MSS pagit (coluto) (1) and the Tale (accentric Ocean Tide height (coluto) (1) and the Tale (accentric Ocean Tide height (coluto) (1) and the Tale (accentric Ocean Tide height (coluto) (1) and the Tale (accentric Ocean Tide height (coluto) (1) and the Tale (accentric Ocean Tide height (coluto) (1) and the Tale (accentric Ocean Tide height (coluto) (1) and the Tale (accentric Ocean Tide height (coluto) (1) and the Maen Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_202207071062207_202201071062700_C001         Mean Ses Suddee (1). Mean Dynamic Topography (1)         There is a neror with the MSS height (coluto) (1) and the Maen Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_202207071060246_202010717006746_C001         Mean Ses Suddee (1). Mean Dynamic Topography (1)         There is a neror with the MSS height (coluto) (1) and the Maen Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_20220707110057_0220107111016_C001         Mean Ses Suddee (1). Mean Dynamic Topography (1)         There is a neror with the MSS height (coluto) (1) and the Mean Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_202207071110542_0220107111016_C001         Mean Ses Suddee (1). Mean Dynamic Topography height (coluto) (1) and the	CS_OFFL_SIR_GOPN_2_20220707T033424_20220707T033605_C001	Mean Dynamic Topography (1)	
C6. 0FFL_SIR_GOPN_2_20220707104208_0001       Topography (1) Total Geoemit: Coem       Topography (1) Total Geoemit: Coem         C6. 0FFL_SIR_GOPN_2_20220707105138_20220707105220_001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (2)         C8. 0FFL_SIR_GOPN_2_20220707105207_00201       Mean Sea Surface (1). Mean Dynamic Topography (abulton 1) for one or more records         C8. 0FFL_SIR_GOPN_2_20220707105207_00201       Mean Sea Surface (1). Mean Dynamic Topography (abulton 1) for one or more records         C8_ 0FFL_SIR_GOPN_2_20220707105207_00201       Mean Sea Surface (1). Mean Dynamic Topography height (abulton 1) for one or more records         C8_ 0FFL_SIR_GOPN_2_20220707105316_0021       Mean Sea Surface (1). Mean Dynamic Topography height (abulton 1) and the Mean Dynamic Topography (1)         C9_ 0FFL_SIR_GOPN_2_20220707110057_20220707110136_0011       Mean Sea Surface (1). Mean Dynamic Topography height (abulton 1) for one or more records         C9_ 0FFL_SIR_GOPN_2_20220707111642_202207071110136_0011       Mean Sea Surface (1). Mean Dynamic Topography (1)       There is an error with the MSS height (abulton 1) and the Mean Dynamic Topography (1)         C9_ 0FFL_SIR_GOPN_2_20220707111624_2022070711120130_0001       Mean Sea Surface (1). Mean Dynamic Topography (1)       There is an error with the MSS height (abulton 1) and the Mean Dynamic Topography (1)         C9_ 0FFL_SIR_GOPN_2_202207071113255_00201       Mean Sea Surface (1). Mean Dynamic Topography (1)       There is an error with the MSS height (abulton 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220707T034316_20220707T034529_C001		
CS_OFFL_SIR_GOPN_2_20220707T053207_20220707T052700_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) or more records Topography (2) and the Mean Dynamic Topography (1) Topography (2) and the Mean Dynamic Topography high (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	CS_OFFL_SIR_GOPN_2_20220707T042706_20220707T042920_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide height
CS_OFFL_SIR_GOPN_2_20220707T003346_20220707T000745_C001       Topography (1)       Topography (2)         CS_OFFL_SIR_GOPN_2_20220707T003346_20220707T000745_C001       Mean Sea Sufface (1), Mean Dynamic       There is an error with the MSS height (colution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20220707T1003546_20220707T070511_C001       Mean Sea Sufface (1), Mean Dynamic       There is an error with the MSS height (colution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20220707T110057_02220707T110136_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (colution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20220707T110057_02220707T110136_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (colution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20220707T115149_20220707T1120130_C001       Mean Dynamic Topography height (colution 1) the role or more records         CS_OFFL_SIR_GOPN_2_20220707T1135226_20220707T132316_C001       Mean Sea Sufface (1), Mean Dynamic Topography height (colution 1), the Total Geocentric Ocean Tide (colution 1) and the Mean Dynamic Topography height	CS_OFFL_SIR_GOPN_2_20220707T051336_20220707T051522_C001	Mean Dynamic Topography (1)	
Coll OFFL_SIR_GOPN_2_20220707T10036_20220707T10051_0001         Topography (1)         Topography height (edulion 1) for one or more records           CS_OFFL_SIR_GOPN_2_20220707T10035_20220707T110136_C001         Mean Sea Sufface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (edulion 1) for one or more records           CS_OFFL_SIR_GOPN_2_20220707T110057_20220707T110136_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (edulion 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_GOPN_2_20220707T115146_20220707T11514_C001         Mean Sea Sufface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (edulion 1) for one or more records           CS_OFFL_SIR_GOPN_2_20220707T115824_20220707T115316_C001         Mean Sea Sufface (1), Mean Dynamic Topography leight (edulion 1), to can or more records           CS_OFFL_SIR_GOPN_2_20220707T138225_20220707T133518_C001         Mean Sea Sufface (1), Mean Dynamic Topography leight (edulion 1) and the Mean Dynamic Topography leight (	CS_OFFL_SIR_GOPN_2_20220707T052207_20220707T052700_C001		
CS_OFFL_SIR_GOPN_2_20220707T110136_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_20220707T110136_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T110146_20020707T110514_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (FCD), Total Geocentric O	CS_OFFL_SIR_GOPN_2_20220707T060348_20220707T060745_C001		
CS_OFFL_SIR_GOPN_2_20220707T115149_20220707T115314_C001         Inter light sinut 1000/gaphy (1)         or more records           CS_OFFL_SIR_GOPN_2_20220707T115314_C001         Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Coen Tide (CPT), Total Geocentric Coen Tide for one or more records           CS_OFFL_SIR_GOPN_2_20220707T133225_20220707T133255_0021         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20220707T133255_20220707T134251_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T142833_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Total Geocentric Coen Tide (COT) Total Geocentric Coen Tide (COT) Total Geocentric Coen Tide (COT) Total Geocentric Coen Tide (COT) and solution 2.EFS) and the Non-Equilibrium Long Period Cean Tide           CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T16035_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynami	CS_OFFL_SIR_GOPN_2_20220707T070316_20220707T070511_C001		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_20220707T115149_20220707T1120130_C001       Topography (1)       Topography (2)       Topography (1)       Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T115824_20220707T1120130_C001       Mean Seas Surface (1), Mean Dynamic Topography (1) for column (1), the Mean Dynamic Topography (1) for and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (500, T), Total Geoentric Ocean Tide (500, T	CS_OFFL_SIR_GOPN_2_20220707T110057_20220707T110136_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_GOPN_2_20220707T15824_20220707T120130_C001       Topography (1), Total Geocentric Ocean Tide (CF), Non-Equilibrium Long Period Ocean Tide       Topography (1), Total Geocentric Ocean Tide (CF), Non-Equilibrium Long Period CS_OFFL_SIR_GOPN_2_20220707T133225_20220707T133518_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography tight (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T133228_20220707T13325_20220707T134251_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography tight (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T143233_C001       Mean Sea Surface (1), Mean Dynamic Topography tight (solution 1), the Mean Dynamic Topography tight (solution 1), the Mean Dynamic Topography tight (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T143233_C001       Mean Sea Surface (1), Mean Dynamic Topography 1)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography tight (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T161204_20220707T151439_C001       Mean Sea Surface (1), Mean Dynamic Topography 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography tight (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Mean Sea Surface (1), Mean Dynamic Topography tight (solution 1) and the Mean Dynamic Topography tight (solution 1) and the Mean Dynamic Topography tight (solutin 1) and the Mean Dynamic Topography height (so	CS_OFFL_SIR_GOPN_2_20220707T115149_20220707T115314_C001	Topography (1)	
CS_OFFL_SIR_GOPN_2_20220707T133728_20220707T134251_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T142825_20220707T143233_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (CS), Non-Equilibrium Long Perior Tide (FS), Non-Equilibrium Long Perior Tide (FS), Non-Equilibrium Long Perior Topography height (solution 1), the Total Geocentric Ocean Tide (CS), OFFL_SIR_GOPN_2_20220707T151204_20220707T151439_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (COT)         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (COT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T16078256_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T164912_20220707T165256_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220	CS_OFFL_SIR_GOPN_2_20220707T115824_20220707T120130_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean
CS_OFFL_SIR_GOPN_2_20220707T14325_20220707T143233_C001       Topography (1)       Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T143233_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       Topography (1)       Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T143233_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide         CS_OFFL_SIR_GOPN_2_20220707T151204_20220707T151439_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T164912_20220707T165256_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T174908_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T175108_C001 <t< td=""><td>CS_OFFL_SIR_GOPN_2_20220707T133225_20220707T133518_C001</td><td></td><td></td></t<>	CS_OFFL_SIR_GOPN_2_20220707T133225_20220707T133518_C001		
CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T143233_C001       Topography (1). Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOPN_2_20220707T151204_20220707T151439_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOPN_2_20220707T164912_20220707T165256_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T174908_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T175108_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T174908_C001       Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) for	CS_OFFL_SIR_GOPN_2_20220707T133728_20220707T134251_C001		
CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Topography (1)       Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T164912_20220707T165256_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T174908_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T174908_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T174908_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174922_2020707T174908_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T175108_C001       Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T182925_20220707T183116_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_20220707T182925_20220707T184151_C001       Mean Dynamic Topography (1)       There is an	CS_OFFL_SIR_GOPN_2_20220707T142825_20220707T143233_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean
CS_OFFL_SIR_GOPN_2_20220707T160722_20220707T160835_C001       Topography (1), Total Geocentric Ocean Tide (GOT)       Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T164912_20220707T165256_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_20220707T174644_20220707T174908_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_20220707T174922_20220707T175108_C001       Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T182925_20220707T183116_C001       Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T182925_20220707T183116_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) for one or or more records         CS_OFFL_SIR_GOPN_2_20220707T184937_20220707T184151_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) for one or or more records	CS_OFFL_SIR_GOPN_2_20220707T151204_20220707T151439_C001		
CS_OFFL_SIR_GOPN_2_20220707T164912_20220707T165256_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T174908_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T174908_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T175108_C001       Mean Dynamic Topography (1), Total       There is an error with the Mean Dynamic Topography (solution 1) and the Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOPN_2_20220707T182925_20220707T183116_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_20220707T182925_20220707T183116_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_20220707T183937_20220707T184151_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_20220707T160722_20220707T160835_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide height
CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T175108_C001       Topography (1)       Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T175108_C001       Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOPN_2_20220707T182925_20220707T183116_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_20220707T183937_20220707T184151_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_20220707T164912_20220707T165256_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPN_2_20220707T183937_20220707T183116_C001 Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20220707T183937_20220707T184151_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20220707T183937_20220707T184151_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220707T174644_20220707T174908_C001		
CS_OFFL_SIR_GOPN_2_20220707T183937_20220707T1831151_C001 Mean Dynamic Topography (1) or more records There is an error with the Mean Dynamic Topography (solution 1) for one	CS_OFFL_SIR_GOPN_2_20220707T174922_20220707T175108_C001		
	CS_OFFL_SIR_GOPN_2_20220707T182925_20220707T183116_C001	Mean Dynamic Topography (1)	
	CS_OFFL_SIR_GOPN_2_20220707T183937_20220707T184151_C001	Mean Dynamic Topography (1)	

CS_OFFL_SIR_GOPN_2_20220707T192635_20220707T193106_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_20220707T200902_20220707T201041_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_20220707T214859_20220707T215239_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_20220707T232827_20220707T233144_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_20220707T233657_20220707T233822_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_20220707T011106_20220707T011852_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_20220707T025005_20220707T025547_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_20220707T025603_20220707T025721_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with 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_GOPR_2_20220707T042920_20220707T043614_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_20220707T060745_20220707T061306_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_20220707T074606_20220707T075556_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_20220707T092340_20220707T093109_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_20220707T094131_20220707T094224_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_20220707T110229_20220707T110918_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_20220707T110919_20220707T111044_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_20220707T124105_20220707T124819_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_20220707T124819_20220707T125048_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_20220707T142252_20220707T142713_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_20220707T142713_20220707T142825_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_20220707T160041_20220707T160538_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_20220707T160538_20220707T160722_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_20220707T171805_20220707T172527_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_20220707T174033_20220707T174644_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_20220707T192211_20220707T192635_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_20220707T205951_20220707T210846_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_20220707T224004_20220707T224752_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

# 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220707T172622_20220707T172657_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220707T173314_20220707T174033_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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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220706T235400_20220707T001512_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_20220707T002320_20220707T002726_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_20220707T003235_20220707T004232_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_20220707T004420_20220707T005031_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_20220707T005215_20220707T005655_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_20220707T011852_20220707T015358_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_20220707T015703_20220707T020212_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_20220707T020232_20220707T020530_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_20220707T021312_20220707T024406_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_20220707T025722_20220707T031732_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_20220707T031835_20220707T033337_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_20220707T033605_20220707T034111_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_20220707T034130_20220707T034142_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_20220707T035046_20220707T040049_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_20220707T040709_20220707T042221_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_20220707T043614_20220707T045658_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_20220707T045838_20220707T051215_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_20220707T051523_20220707T052022_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_20220707T052104_20220707T052207_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_20220707T052827_20220707T054810_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_20220707T054814_20220707T055047_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_20220707T055210_20220707T060030_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_20220707T062950_20220707T065041_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_20220707T065605_20220707T065940_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_20220707T070002_20220707T070316_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_20220707T070652_20220707T073113_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_20220707T073123_20220707T073357_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_20220707T075736_20220707T080425_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_20220707T080653_20220707T083048_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_20220707T083348_20220707T083855_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_20220707T084636_20220707T091951_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_20220707T100539_20220707T101002_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_20220707T101348_20220707T101929_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_20220707T102015_20220707T102131_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_20220707T102655_20220707T104318_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_20220707T105526_20220707T105923_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_20220707T113202_20220707T114814_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_20220707T115314_20220707T115824_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_20220707T120517_20220707T124104_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_20220707T125048_20220707T125247_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_20220707T130818_20220707T132551_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_20220707T133519_20220707T133727_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_20220707T134501_20220707T142102_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_20220707T143302_20220707T145152_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_20220707T145244_20220707T150609_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_20220707T151439_20220707T151637_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_20220707T151800_20220707T152139_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_20220707T152401_20220707T153900_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_20220707T154102_20220707T155025_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_20220707T160835_20220707T161003_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_20220707T161226_20220707T162945_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_20220707T164553_20220707T164707_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_20220707T165257_20220707T165605_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_20220707T165608_20220707T170042_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_20220707T170338_20220707T171805_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_20220707T175605_20220707T182745_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_20220707T183116_20220707T183331_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_20220707T183341_20220707T183937_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_20220707T184325_20220707T190800_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_20220707T194002_20220707T194004_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_20220707T194016_20220707T200634_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_20220707T201328_20220707T201746_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_20220707T202236_20220707T204817_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_20220707T205344_20220707T205950_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_20220707T211340_20220707T214451_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_20220707T215240_20220707T215819_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_20220707T220129_20220707T220602_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_20220707T222921_20220707T222930_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_20220707T223720_20220707T223915_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_20220707T225157_20220707T232446_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_20220707T233145_20220707T233656_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_20220707T234204_20220707T235838_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_20220707T080434_20220707T080547_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_20220707T091952_20220707T092151_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_20220707T111323_20220707T111424_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_20220707T133728_20220707T134251_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_20220707T174644_20220707T174908_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_20220707T175209_20220707T175224_C001	and Backscatter Quality, OCOG Altimeter	The Ocean Altimeter Range, SSHA, SWH 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_20220707T034529_20220707T035046_C001	and Backscatter Quality, OCOG Altimeter	The Ocean Altimeter Range, SSHA, SWH 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_20220707T052700_20220707T052704_C001	and Backscatter Quality, OCOG Altimeter	The Ocean Altimeter 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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220707T001839_20220707T002158_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_20220707T020530_20220707T020710_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_20220707T024407_20220707T024538_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_20220707T024908_20220707T025005_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_20220707T034316_20220707T034529_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_20220707T040050_20220707T040155_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_20220707T042706_20220707T042920_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_0FFL_SIR_GOPN_2_20220707T051336_20220707T051522_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_20220707T052207_20220707T052700_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_0FFL_SIR_GOPN_2_20220707T060348_20220707T060745_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_20220707T061306_20220707T061341_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_20220707T062243_20220707T062339_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_20220707T062416_20220707T062758_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_20220707T065332_20220707T065605_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_0FFL_SIR_GOPN_2_20220707T070316_20220707T070511_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_20220707T083215_20220707T083348_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_20220707T091952_20220707T092151_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_20220707T092206_20220707T092332_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_20220707T101231_20220707T101348_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_20220707T102131_20220707T102245_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_20220707T130736_20220707T130818_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_20220707T133225_20220707T133518_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_20220707T133728_20220707T134251_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_20220707T142825_20220707T143233_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_20220707T151204_20220707T151439_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_20220707T155025_20220707T155341_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_20220707T164912_20220707T165256_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_20220707T170042_20220707T170228_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_20220707T174922_20220707T175108_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_20220707T192635_20220707T193106_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_20220707T193648_20220707T193908_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_20220707T200902_20220707T201041_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_20220707T201158_20220707T201328_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_20220707T201746_20220707T202038_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_20220707T210847_20220707T211340_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_20220707T214859_20220707T215239_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_20220707T215820_20220707T215934_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_20220707T225001_20220707T225156_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_20220707T232827_20220707T233144_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_20220707T233657_20220707T233822_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_20220707T235838_20220708T000153_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_20220707T001513_20220707T001839_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_20220707T002852_20220707T003235_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_20220707T015443_20220707T015517_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_20220707T020711_20220707T021312_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_20220707T025005_20220707T025547_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_20220707T025603_20220707T025721_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_20220707T034529_20220707T035046_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_20220707T040456_20220707T040709_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_20220707T042920_20220707T043614_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_20220707T045702_20220707T045837_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_20220707T060030_20220707T060325_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_20220707T060745_20220707T061306_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_20220707T065042_20220707T065332_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_20220707T070512_20220707T070651_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_20220707T074606_20220707T075556_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_20220707T083048_20220707T083214_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_20220707T092340_20220707T093109_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_20220707T111432_20220707T111802_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_20220707T114815_20220707T115149_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_20220707T120131_20220707T120517_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_20220707T124105_20220707T124819_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_20220707T132552_20220707T133225_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_20220707T134251_20220707T134500_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_20220707T142252_20220707T142713_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_20220707T150610_20220707T151204_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_20220707T160041_20220707T160538_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_20220707T171805_20220707T172527_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_20220707T172536_20220707T172622_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_20220707T174033_20220707T174644_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_20220707T184151_20220707T184325_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_20220707T191759_20220707T192023_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_20220707T200635_20220707T200902_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_20220707T202039_20220707T202235_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_20220707T205951_20220707T210846_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_20220707T214451_20220707T214859_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_20220707T215934_20220707T220129_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_20220707T223317_20220707T223621_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_20220707T224004_20220707T224752_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_20220707T224923_20220707T225000_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_20220707T232447_20220707T232826_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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# L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

191

59

149

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

Number of products with errors:

#### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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

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

#### Number of products with errors:

## L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

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

## 6.1 P2P Product Format Check

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

Number of products with errors:

# 6.2 P2P Product Header Analysis

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

Number of products with errors:

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220706T233322_20220707T002257_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220707T002257_20220707T011236_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_20220707T011236_20220707T020212_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_220220707T020212_20220707T025151_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_220220707T025151_20220707T034126_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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_220220707T034126_20220707T043106_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_20220707T043106_20220707T052041_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_20220707T052041_20220707T061020_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_220220707T061020_20220707T065956_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_220220707T065956_20220707T074935_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_20220707T074935_20220707T083911_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_20220707T083911_20220707T092850_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_20220707T092850_20220707T101825_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_20220707T101825_20220707T110804_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_220220707T110804_20220707T115740_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_220220707T115740_20220707T124719_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_20220707T124719_20220707T133655_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_20220707T133655_20220707T142634_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_220220707T142634_20220707T151609_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_220220707T151609_20220707T160548_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_220220707T160548_20220707T165524_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_20220707T165524_20220707T174503_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_220220707T174503_20220707T183439_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_220220707T183439_20220707T192418_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_220220707T192418_20220707T201353_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_220220707T201353_20220707T210333_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_220220707T210333_20220707T215308_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_20220707T215308_20220707T224247_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_20220707T224247_20220707T233223_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

Mean Dynamic Topography (1)

There is an error with the Mean Dynamic Topography height for one or more records

CryoSat P2P data includes a measurement co	onfidence flag for each 20 Hz me	asurement record. The bit value of the	his flag indicates any problems when set.
Number of products with errors:	1		
Product		Test Failed	Description
CS_OFFL_SIR_GOP_220220707T165524_	20220707T174503_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more reco
6.6 P2P Measurement Quality I	Flag Check		
P2P Quality Flags (20 Hz)			
CryoSat P2P data includes Quality Flags for e	ach 20 Hz, 20 Hz PLRM and 1 H	z measurement record, copied from	the corresponding L2 products.
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Flags,	please see Section 5.6 for the full	list of products affected.
Number of products with errors:	30		
P2P Quality Flags (20 Hz PLRM)			
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Flags,	please see Section 5.6 for the full	list of products affected.
Number of products with errors:	30		
P2P Quality Flags (1 Hz & 1 Hz PL	RM)		
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Flags,	please see Section 5.6 for the full	list of products affected.
Number of products with errors:	30		
6.8 P2P Ocean Retracking Qua	lity Check		
P2P Retracking Flags (20 Hz)			
			ralue of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This		GOPR and GOPN products over se	ea ice, but this is to be expected.
Number of products with errors:	26		
P2P Retracking Flags PLRM			
CryoSat L2 data includes an ocean retracking	quality flag for each 20 Hz PLRM	I measurement record. The bit value	e of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This	s flag is currently set for products	GOPR and GOPN products over se	ea ice, but this is to be expected.
Number of products with errors:	30		

# 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	144	144	4	140	0
SIR_GOPR1B	99	99	0	99	0
SIR_GOPN1B	109	109	0	109	0
SIR_GOPM_2	144	144	94	50	0
SIR_GOPR_2	99	99	30	68	1
SIR_GOPN_2	109	109	41	68	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

2127

Test Description Key:	est 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

Number of QCC reports with warnings

Number of QCC reports	s with warnings	2121							
Total number of occurrences of each warning									
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRMN						
SIR_GOPM1B	140	0	0	0	0	0	0		
SIR_GOPM_2	0	0	39	34	2	36	0		
SIR_GOPN1B	109	0	0	0	0	0	0		
SIR_GOPN_2	0	0	10	36	6	25	30		
SIR_GOPR1B	96	0	0	0	0	0	0		
SIR_GOPR_2	0	1	34	45	1	25	23		

SHE (CONF)         0 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>DDEDODEDONNODE</th></th<>								DDEDODEDONNODE	
Set Contruit         Set Contruit<	Product Type	RBSZOPOEPNCDF					O	RPEPOPFDSINNCDF	
Bit Conversion         D <thd< th="">         D         <thd< th="">         &lt;</thd<></thd<>			1	-	0	0	0		
Site CoPR 2         20         0 <t< td=""><td></td><td></td><td>1.</td><td></td><td>0</td><td></td><td></td><td></td></t<>			1.		0				
SHI. COPR.1         0         0         0         0         0         0         0         0           SHI. COPR.2         VI         Provide 17 yet         Provide 17 ye	_				0				
Product Type         PERFORMANCE			0	0	0		0	0	
Site CoPMI2         D         D         D         D         D         D           Site CoPMI2         D <tdd< td="">         D         D         D</tdd<>	SIR_GOPR_2	16	2	0	47	0	49	0	
Site CoPMI2         D         D         D         D         D         D           Site CoPMI2         D <tdd< td="">         D         D         D</tdd<>			1	1					
SHL GOVMLD         23         0         0         6         26         0         0         0           SHL GOVMLD         0									
SHL COPYING         0 <th< td=""><td>-</td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td></th<>	-				-	-			
SHI, GOPH,2         0 <t< td=""><td></td><td></td><td>1</td><td>-</td><td>-</td><td></td><td></td><td></td></t<>			1	-	-				
SHI, COPP.2         0 <t< td=""><td>_</td><td></td><td></td><td>-</td><td></td><td></td><td>· ·</td><td></td></t<>	_			-			· ·		
SR. COPR.2         0         45         0         1         10         44         p           Product Type SRL COPR.2         0         AsymptoPhycic/F         AsymptoPhycic/F         Social Control         Social Control <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Product Type         Restrictor Protocol         Restrictor Protocol         SCI TODRIGOT         SCI TODRIGOT           SIR, COMPUTE         0 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>					1				
Sile CoDPUTA SIR, COD		•	10	0				•	
Site         CoPML 2         34         0         6         0         0         0         0         0           Site, COPML 2         31         30         16         2         0 </td <td>Product Type</td> <td>RSWHOEPFDNCDF</td> <td>RSWHOEPFDPLRMNCDF</td> <td>RSWHOEPNCDF</td> <td>SOOHHIFHD</td> <td>SCSTODHRNCDF</td> <td>SCSTODNCDF</td> <td>-</td>	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	
SIR_COPYLE         0         0         0         0         44         1           SIR_COPYLE         30         0	SIR_GOPM1B	0	0	0	0	0	0		
Sitt         COPUL         31         30         16         2         0         0           SITL         OURS         30         47         1         0         0         0         0           Product Type         OURSCOPE_2         30         47         1         0	SIR_GOPM_2		0		0	0	0		
Site         Open         Open <th< td=""><td>_</td><td></td><td></td><td>-</td><td>•</td><td></td><td></td><td></td></th<>	_			-	•				
SR_GORR_2         36         47         1         0         0           Product Type SR_GOP_2         OHHMOOR         WINGEPROLEP         WINGEPROLEP         WINGEPROLEP         WINGEPROLEP         RESIZE/OEPFDUCIDF         RESIZE/OEFFDUCIDF         Resize/OEFFDUCIDF <thresize oeffducidf<="" th="">         Resize/OEFFDUCIDF<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thresize>									
Product Type         Difference         MVIDEPPENDOF         MVIDEPPENDOF         RESIZEPOEPFDULMACE         RESIZEPOEFFDULMACE         <	_				0				
SR_GOP         19         29         19         29         19         29           Product Type SR_GOP_2_3         17         29         29         16         RSSHAOPDRUEDF         IS         IS         RSSHAOPDRUEDF         IS         IS <td>SIR_GOPR_2</td> <td>36</td> <td>47</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td></td>	SIR_GOPR_2	36	47	1	1	0	0		
SR_GOP         19         29         19         29         19         29           Product Type SR_GOP_2_3         17         29         29         16         RSSHAOPDRUEDF         IS         IS         RSSHAOPDRUEDF         IS         IS <td>Product Type</td> <td>IOHHMOOR</td> <td>MVIOEPEDNCDE</td> <td>MVIOEPNCDE</td> <td>MVIONCDE</td> <td>RBSZOPOEPEDNCDE</td> <td>RBSZOPOEPEDPI RMNG</td> <td>RBSZOPOEPNCDE</td>	Product Type	IOHHMOOR	MVIOEPEDNCDE	MVIOEPNCDE	MVIONCDE	RBSZOPOEPEDNCDE	RBSZOPOEPEDPI RMNG	RBSZOPOEPNCDE	
Product Type         ResELPOTONCOF         Reservant         Reservant <threservant< th=""> <threservant< th=""> <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></threservant<></threservant<>									
SIR_GOP/2_         3         17         29         28         18         29         18           Product Type SIR_GOP/2_         27         20         10         12         1         1         1           SIR_GOP/2_         27         20         10         10         20         1					-				
Product Type         RSWHOEPFDPLRNNCDF         RSWHOEPFDPLRNNCDF         RSWHOEPFDPLRNNCDF         Image: Control Status Stat	Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	
Site GOP_2         27         29         19         18         29           Test Description Key:         Addressite         Test Description Key:         Addressite         Details           BCSINCOF         BurtCourterStep20HNMCOF         The hard courter should be the resigner with regard to the previous band courter           IOHEMOCR         Mode/IHI/2014HMappOLOFRage         The burd courter should be the resigner with regard to the previous band courter           MVOEPFDNOEF         MeaningValuatifOcearELable/grobateCDEF         The value should not be a 'msaing value' for suffice type 0 only for latitudes between -70 and 70 degrees           MVOEPFCDF         MeaningValuatifOcearELable/grobateFD2NetCDF         The value should not be a 'msaing value' for suffice type 0 only for latitudes between -70 and 700 degrees           MVOEPFCDF         RangeBackscatterSigmaZenOPOcearExclushingPolarFD2NetCDF         The value should not be a 'msaing value' for suffice type 0 only for latitudes between -70 and 700 degrees           RBSZOPOEPFDERM         RangeBackscatterSigmaZenOPOcearExclushingPolarFD2NetCDF         The value should not be a 'msaing value' for suffice type - ocean for latitude between -70 and 700 degrees           RBSZOPOEPFDERMSR         RangeBeakinesExclushingPolarCPD2NetMNECDF         The value should not be a 'msaing value' for auffice type - ocean for latitude between -70 and 700 degrees           RPEPOPFDENKNOCF         RangeBeakinesExclushingPolarCPD2NetMNECDF         The Peakinese should be between 70 and 7200 (or mi	SIR_GOP_2_	3	17	29	26	18	29	18	
Site GOP_2         27         29         19         18         29           Test Description Key:         Addressite         Test Description Key:         Addressite         Details           BCSINCOF         BurtCourterStep20HNMCOF         The hard courter should be the resigner with regard to the previous band courter           IOHEMOCR         Mode/IHI/2014HMappOLOFRage         The burd courter should be the resigner with regard to the previous band courter           MVOEPFDNOEF         MeaningValuatifOcearELable/grobateCDEF         The value should not be a 'msaing value' for suffice type 0 only for latitudes between -70 and 70 degrees           MVOEPFCDF         MeaningValuatifOcearELable/grobateFD2NetCDF         The value should not be a 'msaing value' for suffice type 0 only for latitudes between -70 and 700 degrees           MVOEPFCDF         RangeBackscatterSigmaZenOPOcearExclushingPolarFD2NetCDF         The value should not be a 'msaing value' for suffice type 0 only for latitudes between -70 and 700 degrees           RBSZOPOEPFDERM         RangeBackscatterSigmaZenOPOcearExclushingPolarFD2NetCDF         The value should not be a 'msaing value' for suffice type - ocean for latitude between -70 and 700 degrees           RBSZOPOEPFDERMSR         RangeBeakinesExclushingPolarCPD2NetMNECDF         The value should not be a 'msaing value' for auffice type - ocean for latitude between -70 and 700 degrees           RPEPOPFDENKNOCF         RangeBeakinesExclushingPolarCPD2NetMNECDF         The Peakinese should be between 70 and 7200 (or mi									
Test Description Key:         Details           Abbreviation         Test Description Key:           Abbreviation         Details           DCSI-INCDF         Build.counter/Blog201LNACDF         The burst counter should be one higher with regard to the previous bard counter           DIFHMOOR         Index/THINICHTAMpring/OxfORRage         The mapping of 20 Hz to 11 km measurements should be in the range 0 to furniter of 11 ks samples - 1)           MVICEPFDNCDF         Meanry/Valent/OxeamExcludingPolamPEXPECT         The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees           MVICEPFDNCDF         Meanry/Valent/OxeamExcludingPolamPEXPECT         The value should not be a 'missing value' for surface type 0 only           RBSZOPOEPFTNERM         Regregesoncater/SigmaZerrOPOceanExcludingPolamPEXPERDEXPLEXPECT         The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitude between -70 and 7200 (or missing) for surface type = coann for latitudes between -70 and 7200 (or missing) for surface type = coann for latitudes between -70 and 700 dor missing) for su							-	-	
Abbraviation         Text name         Details           BCSHNCDF         ButCounterStep20H3MetCDF         The butst counter should be one higher with regards to the previous bust counter           DHHMOOR         MostorQH4MappingOutGNRange         The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (unuter of 1 Hz angles.)           MVICEPEPDACPF         MessingValuatintOceanExcludingPolarF02MetCDF         The value should not be a "missing value" for sufface type 0 only for latitudes between. 70 and 70 degrees.           MVIOEPF         MessingValuetintOceanExcludingPolarF02MetCDF         The value should not be a "missing value" for sufface type 0 only for latitudes between. 70 and 70 degrees.           RBS2DPOEPFDRRM         RangeBackstatterSigmaZeroOPOceanExcludingPolarF02MetRNNetCDF         The backstatter sigma Zero databab te thetween 70 and 7500 (or missing) for sufface type = ocean for latitude between 70 and 7500 (or missing) for sufface type = ocean for latitude between 70 and 7500 (or missing) for sufface type = ocean for latitude between 70 and 7500 (or missing) for sufface type = ocean for latitude between 70 and 7500 (or missing) for sufface type = ocean for latitude between 70 and 7500 (or missing) for sufface type = ocean for latitude between 70 and 7500 (or missing) for sufface type = ocean for latitude between 70 and 7500 (or missing) for sufface type = ocean for latitudes between 70 and 7500 (or missing) for sufface type = ocean for latitudes between 70 and 7500 (or missing) for sufface type = ocean for latitudes between 70 and 7500 (or missing) for sufface type = ocean for latitudes between 70 and 7500 (or missing) for sufface type = ocean for latitudes between 70 and 7500 (or missing) for sufface type = ocean for l	SIR_GOP_2_	27	29	19	18	29			
Abbreviation         Tet name         Details           BGSHNCDF         BurtdCounterSteg20HtMeCDF         The burt counter shauld be one higher with regards to the previous buct counter           CHHMOOR         IndexCOTH/MO20HtMeCDF         The marging of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz angles - 1) and 70 degrees           MVIGEPEDNOEF         MissingValueIntCounterSchuldingPolanF02MetCDF         The value should not be a 'missing value' for surface type 0 only for latitudes between - 70 and 70 degrees           MVIOREF         MissingValueIntCounterSchuldingPolanF02MetCDF         The value should not be a 'missing value' for surface type 0 only for latitudes between - 70 and 70 degrees           MVIONECF         MissingValueIntCounterSchuldingPolanF02MetCDF         The backschuld regimes and 70 degrees           RBS2DPOEPFDRMR         RangeBeckscatterSigmaZero0POceanExcludingPolanF02MetCDF         The backschuld regimes and 70 degrees           RBS2DPOEPFLOEF         RangeBeckscatterSigmaZero0POceanExcludingPolanF02MetCDF         The backschuld regimes and 70 degrees           RBS2DPOEPFLOEF         RangeNetLPOceanTideCounterAction F1 and 70 degrees         The None-Watch To angle and 70 degrees           RREPOFFDELRMACDE         RangeNetLPOceanTideCounterAction F1 and 70 degrees         The None-Watch To angle and 70 degrees           RREPOFFDELRMACDE         RangeNetLPOCeanTideCounterAction F1 and 70 degrees         The Pachines should be between 0 and 15000 (or missing) for surface type = ocean	Test Description Key:								
BCSHNCDF         Burst Counter Step20HUMeCDF         The burst counter should be one higher with regard to the previous bust counter           IDHHMOOR         MoxOFH Hird2NHuMeppingQUORRange         The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (vamber of 1 Hz samples - 1)           MVICEPEPNCDF         MesingValueHitCoemExcludingPolarED2NetCDF         The value should not be a "missing value" for artices type 0 only for latitudes between - 70 and 70 degrees           MVICEPEPNCDF         MesingValueHitCoemExcludingPolarED2NetCDF         The value should not be a "missing value" for artices type 0 only for latitudes between - 70 and 70 degrees           MVICEPEPNCDF         RangeBackscatterSigmaZeroOPOcemExcludingPolarED2NetCDF         The value should not be a "missing value" for artices type 0 only for latitudes between - 70 and 7500 (or missing) for surface type = coean for latitude should not be a missing value" for artices type = 0 only           RBSZOPOEPFNDEF         RangeBackscatterSigmaZeroOPOcemExcludingPolarED2NetCDF         The backscatter sigma zone whold be between 70 and 7500 (or missing) for surface type = coean for latitude between - 70 and 7500 (or missing) for surface type = coean for latitude between - 70 degrees           RNELPOTONCDF         RangeNetLPOceanTiduOCeantNetCDF         The Pacames should be between 0 and 4000 (or missing) for surface type = coean for latitudes between - 70 degrees           RNEPOFFDLINKOCP         RangeNetAinessExcludingPolarOFD2D2MNRCDF         The Pacames should be between 0 and 4000 (or missing) for surface type = coean for latitudes between - 70 degrees           R		Test name			Details				
IDEHMOOR         IndexOfTH2r20HzMappingOutORRange         The mapping of 20 Hz to 1 Hz measurements should be the interange 0 to (number of 1 Hz samples - 1)           MVIOEPENXDF         MissingValueIntOceanEscularingPolar/EDXHetCDF         The value should not be a "missing value" for surface type 0 only for latitudes between - 70 and 7500 (or missing) for surface type = 0 only           RBSZOPOEPENXDF         RangeBackcetter/SigmaZexoOPOceanEscularingPolar/EDXHetCDF         The backcetter sigma zero value should not be a "missing value" for surface type = 0 only           RBSZOPOEPENXDF         RangeBackcetter/SigmaZexoOPOceanEscularingPolar/EDXHetCDF         The backcetter sigma zero value should be between 70 and 7500 (or missing) for surface type = ocean for latitude between 70 and 7500 (or missing) for surface type = ocean for latitude between - 70 and 7500 (or missing) for surface type = ocean for latitude between - 70 and 7500 (or missing) for surface type = ocean for latitude between - 70 and 7500 (or missing) for surface type = ocean for latitude between - 70 and 7500 (or missing) for surface type = ocean for latitude between - 70 and 7500 (or missing) for surface type = ocean for latitude between - 70 and 7500 (or missing) for surface type = ocean for latitude between - 70 and 7500 (or missing) for surface type = ocean for latitudes between - 70 To dispress           RPEPOPFDRMSAR         RingePeakinessExcludingPolar/OFD2R/MARINECDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between - 70 To dispress           RPEOPFDEXIRNACDF         RingePeakinessExcludingPolar/OFD2R/MARINECDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes betwe			DE			one higher with regard to the	provious burst counter		
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MVIOEPNCDF         MeangValueIntOceenExcludingPolarNetCDF         The value should not be a 'missing value' for sufface type 0 only for latitudes between -70 and 70 degrees           MVIONCDF         MeangValueIntOceenNetCOF         The value should not be a 'missing value' for sufface type 0 only           RBS2OP0EPEDNCDF         RangeBackscatterSigmaZenoOPOceanExcludingPolarFD2PLENDNetOF         The backscatter and on the a 'missing value' for sufface type = ocean for latitude between -70 and 70 degrees           RBS2OP0EPEDLRNR         RangeBackscatterSigmaZenoOPOceanExcludingPolarFD2PLRMNetODF         The backscatter and the between 70 and 7500 (or missing) for sufface type = ocean for latitude between -70 and 70 degrees           RNELPOTONCDF         RangeBackscatterSigmaZenoOPOceanExcludingPolarH2D2HRMNetODF         The backscatter and type = ocean for latitude between -70 and 70 degrees           RNELPOTONCDF         RangeBeakressExcludingPolarH2D2HRMNetCDF         The backscatter and the between 0 and 4500 (or missing) for sufface type = ocean for latitude between -70 and 70 degrees           RPEPOPFDLRNNCDF         RangeBeakressExcludingPolarOPFD2LRMNetCDF         The Feakress should be between 0 and 4500 (or missing) for sufface type = ocean for latitude between -77 dogrees           RPEPOPFDLRNNCDF         RangeBeakressExcludingPolarOPFD2LRMNetCDF         The Feakress should be between 0 and 45000 (or missing) for sufface type = ocean for latitudes between -77 dogrees           RPEPOPFDLRNNCDF         RangeBeakressExcludingPolarOPFD2LRMNetCDF         The Feakress should be tetween 0 and 45000 (or missing) for suffa		Missing) (alugintOpponEvalue	dingDolorED2NotCDE						
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NOLLOW CEPTORICIT         Detween 7.00 and 70 degrees           RBSZOPCEFEPDERM         RangeBackscatterSigmaZeroOPOceanExxLudingPolarFD2PLRNNetCDF         The backscatter sigmaZeroOPOceanExxLudingPolarNetCDF           RBSZOPCEPNCDF         RangeBackscatterSigmaZeroOPOceanExxLudingPolarNetCDF         The backscatter sigmaZeroOPOceanExxLudingPolarNetCDF           RNELPOTONCDF         RangeBackscatterSigmaZeroOPOceanExxLudingPolarNetCDF         The backscatter sigmaZeroOPOcean for latitude batween 7.00 and 7500 (or missing) for surface type = ocean for latitude batween 7.00 and 70 degrees           RPEPOFPDERNNCDF         RangeBackscatterSigmaZeroOPOceanExxLudingPolarNetCDF         The backscatter sigmaZeroOPOceanExxLudingPolarNetCDF           RPEPOFPDERNNSAR         RangePeakinessExLudingPolarOPED2LRNNetCDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between 7.07 degrees           RPEPOFPDERNSAR         RangePeakinessExLudingPolarOPED2PLRMSINNetCDF         The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between 7.07 degrees           RPEPOFPDERNSAR         RangePeakinessExLudingPolarOPED2PLRMSINNetCDF         The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between 7.07 degrees           RPEPOFPDERNNCDF         RangePeakinessExLudingPolarOPED2SINNetCDF         The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between 7.07 degrees           RPEPOPPDSINNCDF         RangePeakinessExLudingPolarOPESINNetCDF <td>MVIONCDF</td> <td>MissingValueIntOceanNetCE</td> <td>DF</td> <td></td> <td>The value should not be a 'm</td> <td>nissing value' for surface type</td> <td>0 only</td> <td></td>	MVIONCDF	MissingValueIntOceanNetCE	DF		The value should not be a 'm	nissing value' for surface type	0 only		
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F       RangeSeasuitate/neight/anomalyOcean/ED3FLNNNetCDF       The sea sufface neight anomaly should be between -3000mm (or missing) for sufface type = or         RSSHAONCDF       RangeSeasuitate/neight/anomalyOcean/ED3FLNNNetCDF       The sea sufface height anomaly should be between -3000mm and 3000mm (or missing) for sufface type = or         RSWHOEPFDNCDF       RangeSignificant/WaveHeightOceanExcludingPolarFD2NetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         RSWHOEPFDPLRMNC       RangeSignificant/WaveHeightOceanExcludingPolarFD2PLRMNetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         RSWHOEPFDPLRMNC       RangeSignificant/WaveHeightOceanExcludingPolarFD2PLRMNetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         RSWHOEPNCDF       RangeSignificant/WaveHeightOceanExcludingPolarFD2PLRMNetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         SOOHHIFHD       SameOrOneHigher1HzIndexFor20HzData       The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	RSSHAOFDNCDF	RangeSeaSurfaceHeightAnd	omalyOceanFD3NetCDF		The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
F       RangeSeasuitate/neight/anomalyOcean/ED3FLNNNetCDF       The sea sufface neight anomaly should be between -3000mm (or missing) for sufface type = or         RSSHAONCDF       RangeSeasuitate/neight/anomalyOcean/ED3FLNNNetCDF       The sea sufface height anomaly should be between -3000mm and 3000mm (or missing) for sufface type = or         RSWHOEPFDNCDF       RangeSignificant/WaveHeightOceanExcludingPolarFD2NetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         RSWHOEPFDPLRMNC       RangeSignificant/WaveHeightOceanExcludingPolarFD2PLRMNetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         RSWHOEPFDPLRMNC       RangeSignificant/WaveHeightOceanExcludingPolarFD2PLRMNetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         RSWHOEPNCDF       RangeSignificant/WaveHeightOceanExcludingPolarFD2PLRMNetCDF       The significant wave height should be between 0mm and 15000mm (or missing) for sufface type = ocean for latitudes between -70 and 70 degrees         SOOHHIFHD       SameOrOneHigher1HzIndexFor20HzData       The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	RSSHAOFDPLRMNCD	) RangeSeaSurfaceHeightAnomalyOceanED3PLRMNetCDE							
RSWHOEPFDNCDF         RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees           RSWHOEPFDPLRMNC         RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees           RSWHOEPFDPLRMNC         RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees           RSWHOEPNCDF         RangeSignificantWaveHeightOceanExcludingPolarNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees           SOOHHIFHD         SameOrOneHigher1HzIndexFor20HzData         The 1Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	F	I vangeseasuriacerreightAnd	JinayOceanFD3PLRWWEICL	/	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWH0EPFDNC0F         RangeSignificantWaveHeightOceanExcludingPolarF02PtetC0F         Iatitudes between -70 and 70 degrees           RSWH0EPFDPLRMNC DF         RangeSignificantWaveHeightOceanExcludingPolarF02PtLRMNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for Iatitudes between -70 and 70 degrees           RSWH0EPNCDF         RangeSignificantWaveHeightOceanExcludingPolarNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for Iatitudes between -70 and 70 degrees           SOOHHIFHD         SameOrOneHigher1HzIndexFor20HzData         The 1Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	RSSHAONCDF	RangeSeaSurfaceHeightAnd	omalyOceanNetCDF		The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWH0EPFDNC0F         RangeSignificantWaveHeightOceanExcludingPolarF02PtetC0F         Iatitudes between -70 and 70 degrees           RSWH0EPFDPLRMNC DF         RangeSignificantWaveHeightOceanExcludingPolarF02PtLRMNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for Iatitudes between -70 and 70 degrees           RSWH0EPNCDF         RangeSignificantWaveHeightOceanExcludingPolarNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for Iatitudes between -70 and 70 degrees           SOOHHIFHD         SameOrOneHigher1HzIndexFor20HzData         The 1Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample		D 0. 17		1005	The significant wave height s	should be between 0mm and	15000mm (or missing) for sur	face type = ocean for	
DF         RangeSignificatitWaveregrinUceatExcludingFolarP22ELNiNetCDF         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           SOOHHIFHD         SameOrOneHigher1HzIndexFor20HzData         The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	RSWHOEPFDNCDF	RangeSignificantWaveHeigh	ntOceanExcludingPolarFD2Ne	etCDF			(or mosting) for sur		
DF         Introduces between -/0 and /0 degrees           RSWHOEPNCDF         RangeSignificantWaveHeightOceanExcludingPolarNetCDF         The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -/0 and /0 degrees           SOOHHIFHD         SameOrOneHigher1HzIndexFor20HzData         The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample		RangeSignificantWaveHeigh	ntOceanExcludingPolarFD2PI	RMNetCDF			15000mm (or missing) for sur	face type = ocean for	
RSWHDEPNEDF         Rangesginincantivavereignicocanexcluding-oran recorr         Iatitudes between -70 and 70 degrees           SOOHHIFHD         SameOrOneHigher1HzIndexFor20HzData         The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	DF		Didding, Oldin DZFL			-	45000mm (as a 1 1 1 1 1		
SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	RSWHOEPNCDF	RangeSignificantWaveHeigh	ntOceanExcludingPolarNetCD	F	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for				
	SOONNEND	SomeOrOneHigher1Uzi-	For20HzData			-	1 higher then its services		
	SOOHHIFHD	SameOrOneHigner1HzIndex	roiz0HzDala		The THZ Index of a 20 Hz sa	ample should be the same or	righer than its previous sam	ipie	
SCSTODHRNCDF Sequence Counter Should be modulo 4 higher with regard to the previous sequence counter	SCSTODHRNCDF	SequenceCounterStepTODH	HRNetCDF		The sequence counter shoul	d be modulo 4 higher with reg	ard to the previous sequence	counter	
	0007051055	Paguanas Country Of Tom							
SCSTODNCDF SequenceCounterStepTODNetCDF The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter	SCSTODNCDF	SequenceCounterStep (OD)	NEIGDE		The sequence counter shoul	a be one higher (modulo 163	34) with regard to the previous	s sequence counter	

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0