

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

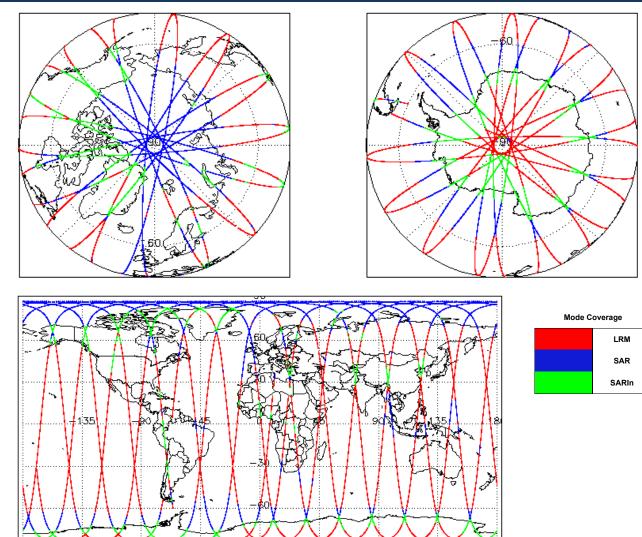
<u>03/07/2020</u>

anaut Duaduation.	31-Jul-2020	Check	L1 & L2	P2P
Report Production:	31-Jul-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CriveSet Ocean Brasseer	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal	
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 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 7.2	See Section 7.2

1. Overview

M	Mission / Instrument News		
	02-Jul-2020	None	
	03-Jul-2020	None	
	04-Jul-2020	Nothing planned	





# 3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. GOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and DSARIn chains. A modification is required in the next release.				
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-	determined baseline and also to check	the validity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
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: 0				
4.5.1.4. Massurement Confidence Data Check				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurement	-			
Attitude Correction Missing: This flag is currently set in error for GOPR product	cts due to a configuration issue. This is	being investigated and will be updated in the next SW update.		
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_GOPM1B_20200703T045251_20200703T045336_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 the				
Number of products with errors: 15	·····			
Product CS_OFFL_SIR_GOPM1B_20200703T041806_20200703T042730_C001	Loss of Echo	Description The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_20200703T130633_20200703T132817_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_20200703T155334_20200703T161034_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_20200703T163256_20200703T164321_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20200703T044651_20200703T044828_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR GOPN1B 20200703T062506 20200703T062939 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20200703T075836_20200703T075909_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR GOPN1B 20200703T094555 20200703T095017 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20200703T161334_20200703T161553_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20200703T174921_20200703T175424_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR GOPN1B 20200703T202854 20200703T203012 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20200703T210428_20200703T210947_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20200702T235727_20200703T000057_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20200703T124914_20200703T125339_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20200703T220913_20200703T221223_C001	Loss of Echo	The tracking echo is missing for one or more records		
5.00	P Level 2 Data Quality	Chask		
	Level 2 Data Quality			
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 binary product file (.DBL). Number of products with errors: 0				
5.2 L2 Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inconsister	ncies and/or errors raised by the around-seament processing chain.		
Number of products with errors: 0	For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.          Number of products with errors:       0			
5.3 L2 Auxiliary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.				
lumber of products with errors: 0				

## 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200703T081634_20200703T081816_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20200703T150454_20200703T152013_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20200703T194145_20200703T194251_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200703T002901_20200703T003022_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_20200703T003531_20200703T003841_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200703T020953_20200703T021233_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_20200703T021434_20200703T022004_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_20200703T030528_20200703T031006_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200703T034907_20200703T035143_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_20200703T044431_20200703T044540_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_20200703T062348_20200703T062502_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_20200703T062506_20200703T062939_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_20200703T070633_20200703T070822_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_20200703T071634_20200703T071857_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_20200703T080358_20200703T080809_C001	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 Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200703T094555_20200703T095017_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200703T102607_20200703T102940_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_20200703T111311_20200703T111411_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200703T120523_20200703T120843_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_20200703T121356_20200703T121521_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_20200703T125609_20200703T125729_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_20200703T135258_20200703T135406_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_20200703T143529_20200703T143639_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_20200703T153000_20200703T153152_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_20200703T161334_20200703T161553_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_20200703T174921_20200703T175424_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_20200703T175427_20200703T175433_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_20200703T183904_20200703T184154_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_20200703T184816_20200703T185119_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_20200703T192911_20200703T193255_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

CS_OFFL_SIR_GOPN_2_20200703T210428_20200703T210947_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200703T211906_20200703T212035_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_20200703T233805_20200703T233930_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_20200703T234449_20200703T234755_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_20200703T011808_20200703T012526_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_20200703T012526_20200703T012829_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_20200703T030000_20200703T030418_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_20200703T030418_20200703T030528_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_20200703T043747_20200703T043954_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_20200703T043954_20200703T044430_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_20200703T061731_20200703T062348_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_20200703T075910_20200703T080358_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_20200703T093556_20200703T094555_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_20200703T111654_20200703T112451_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_20200703T125729_20200703T130514_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_20200703T130533_20200703T130633_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_20200703T143639_20200703T144346_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_20200703T155120_20200703T155334_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_20200703T161553_20200703T162312_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_20200703T175433_20200703T180148_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20200703T193255_20200703T194145_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_20200703T210948_20200703T211725_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_20200703T224918_20200703T225545_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_20200703T225545_20200703T225841_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_20200703T045251_20200703T045336_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 (20Hz)

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

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200703T000907_20200703T002608_C001	<b>3</b>	The Ocean Altimeter Range, SSHA, SWH 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_20200703T003022_20200703T003531_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_20200703T004159_20200703T011807_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_20200703T014010_20200703T014429_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_20200703T014526_20200703T020302_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_20200703T021233_20200703T021434_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_20200703T022205_20200703T023720_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_20200703T024336_20200703T025807_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_20200703T031045_20200703T032830_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_20200703T032951_20200703T034343_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_20200703T035143_20200703T035343_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_20200703T040054_20200703T041604_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_20200703T041806_20200703T042730_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_20200703T044540_20200703T044651_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_20200703T045423_20200703T050631_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_20200703T052949_20200703T053747_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_20200703T054031_20200703T055511_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_20200703T063213_20200703T070502_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_20200703T070822_20200703T071031_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_20200703T071057_20200703T071634_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_20200703T072024_20200703T074426_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_20200703T075345_20200703T075406_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_20200703T081820_20200703T084349_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_20200703T085031_20200703T085506_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_20200703T085910_20200703T092627_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_20200703T095017_20200703T102225_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_20200703T102940_20200703T103514_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_GOPM_2_20200703T103815_20200703T104300_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_20200703T110729_20200703T110848_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_20200703T112858_20200703T120214_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_20200703T120844_20200703T121356_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_20200703T121756_20200703T123540_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_20200703T123859_20200703T124354_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_20200703T125339_20200703T125350_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_20200703T130633_20200703T132817_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_20200703T132927_20200703T134038_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_20200703T134519_20200703T134843_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_20200703T134900_20200703T135258_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_20200703T135742_20200703T142402_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_20200703T142418_20200703T143120_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_20200703T144346_20200703T145821_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_20200703T150302_20200703T150423_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_20200703T150454_20200703T152013_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_20200703T152223_20200703T152741_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_20200703T152800_20200703T153000_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_20200703T153828_20200703T155120_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_20200703T155334_20200703T161034_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_20200703T163256_20200703T164321_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_20200703T164501_20200703T165904_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_20200703T170148_20200703T170652_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_20200703T170716_20200703T170831_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_20200703T171524_20200703T171621_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.
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20200703T172441_20200703T172712_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20200703T173835_20200703T174527_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_20200703T181634_20200703T181934_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_20200703T182131_20200703T183743_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_20200703T184155_20200703T184608_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_20200703T185307_20200703T191832_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_20200703T195300_20200703T201719_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_20200703T201959_20200703T202522_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_20200703T202529_20200703T202854_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_20200703T203228_20200703T210428_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_20200703T212755_20200703T215039_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_20200703T215143_20200703T215644_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_20200703T215953_20200703T220801_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_20200703T221223_20200703T224529_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_20200703T225842_20200703T225942_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_20200703T232856_20200703T233537_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_20200703T233930_20200703T234448_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_20200703T235140_20200704T001301_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_20200703T025930_20200703T025959_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_20200703T102607_20200703T102940_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_20200703T110432_20200703T110617_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_20200703T192707_20200703T192829_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200703T012955_20200703T014009_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200703T044828_20200703T045005_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200703T155120_20200703T155334_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200703T000741_20200703T000907_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_20200703T002901_20200703T003022_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_20200703T020953_20200703T021233_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_20200703T021434_20200703T022004_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_20200703T030528_20200703T031006_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_20200703T035845_20200703T040025_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_20200703T044431_20200703T044540_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_20200703T044651_20200703T044828_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_20200703T052634_20200703T052949_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_20200703T053828_20200703T053936_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_20200703T060450_20200703T060837_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_20200703T062506_20200703T062939_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_20200703T075447_20200703T075459_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_20200703T075836_20200703T075909_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_20200703T080358_20200703T080809_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_20200703T081143_20200703T081559_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_20200703T084602_20200703T084743_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_20200703T084852_20200703T085031_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_20200703T085625_20200703T085748_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_20200703T103514_20200703T103630_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_20200703T105317_20200703T105505_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_20200703T110432_20200703T110617_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_20200703T121356_20200703T121521_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_20200703T125609_20200703T125729_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_20200703T134235_20200703T134519_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_20200703T135258_20200703T135406_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20200703T152043_20200703T152223_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200703T153000_20200703T153152_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_20200703T161334_20200703T161553_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_20200703T162924_20200703T163255_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_20200703T170001_20200703T170148_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_20200703T172349_20200703T172441_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_20200703T172713_20200703T173247_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_20200703T173712_20200703T173835_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_20200703T174546_20200703T174709_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_20200703T174921_20200703T175424_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_20200703T181056_20200703T181357_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_20200703T192707_20200703T192829_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_20200703T192911_20200703T193255_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_20200703T194251_20200703T194413_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_20200703T194849_20200703T195300_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_20200703T201844_20200703T201958_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_20200703T210428_20200703T210947_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_20200703T220801_20200703T220913_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_20200703T224529_20200703T224701_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_20200703T224745_20200703T224918_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_20200703T230118_20200703T230241_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_20200703T230659_20200703T230716_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_20200703T233805_20200703T233930_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_20200703T234449_20200703T234755_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_20200703T002608_20200703T002901_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_20200703T003841_20200703T004158_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_20200703T011808_20200703T012526_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_20200703T020302_20200703T020952_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_20200703T022005_20200703T022205_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_20200703T025807_20200703T025930_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_20200703T032830_20200703T032951_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_20200703T034343_20200703T034907_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_20200703T043747_20200703T043954_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_20200703T045336_20200703T045423_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_20200703T053936_20200703T054030_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_20200703T055511_20200703T060057_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_20200703T060101_20200703T060248_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_20200703T060252_20200703T060326_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_20200703T070502_20200703T070633_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_20200703T071857_20200703T072024_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_20200703T102225_20200703T102607_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_20200703T110958_20200703T111306_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_20200703T125351_20200703T125609_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_20200703T125729_20200703T130514_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_20200703T134039_20200703T134234_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_20200703T135407_20200703T135742_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_20200703T143639_20200703T144346_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_20200703T153152_20200703T153828_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_20200703T155120_20200703T155334_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_20200703T181527_20200703T181633_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_20200703T193255_20200703T194145_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_20200703T201719_20200703T201844_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_20200703T203012_20200703T203228_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_20200703T215040_20200703T215143_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_20200703T215644_20200703T215829_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_20200703T220913_20200703T221223_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_20200703T225545_20200703T225841_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_20200703T230048_20200703T230118_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_20200703T230241_20200703T230316_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_20200703T233537_20200703T233805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
L2 Quality Flags (1 Hz & 1Hz PLRM)				
Currently, there are several common flags raised in the Level 2 products,	which are summarised below.			
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for p	products over sea ice, which is to be expected	l.		
Number of products with errors: 184				
5.8 L2 Ocean Retracking Quality Check				
L2 Retracking Flags (20Hz)				
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: 54				
L2 Retracking Flags (20Hz, 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.

145

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: 0

# 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:
0

# 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).

0

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

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

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

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

30

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220200702T234515_20200703T003450_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_220200703T003450_20200703T012429_C001	Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (EES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: EES) and the Non aquilibrium Long Period Ocean Tide height

Display         Display <t< th=""><th>CS_OFFL_SIR_GOP_2_20200703T012429_20200703T021403_C001</th><th>Mean Sea Surface (1), Mean Dynamic Topography (1)</th><th>There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records</th></t<>	CS_OFFL_SIR_GOP_2_20200703T012429_20200703T021403_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
C6:     OFL_SR_COP_2_2020/10103042_2020/10103047_000110       C6:     OFL_SR_COP_2_2020/10103047_2020110       C6:     OFL_SR_COP_2_2020/10104020       C6:     OFL_SR_COP_2_20200/10104020       C6:     OFL_SR_COP_2_20200/10104020       C6:     OFL_SR_COP_2_20200/10104020       C6:     OFL_SR_COP_2_20200/10104021       C6:     OFL_SR_COP_2_20200/10104021       C6:     OFL_SR_COP_2_20200/10104001       C6:     OFL_SR_COP_2_20200/10104001 <td>CS_OFFL_SIR_GOP_220200703T021403_20200703T030342_C001</td> <td></td> <td>There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records</td>	CS_OFFL_SIR_GOP_220200703T021403_20200703T030342_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Control         Trappage (1)         Trappage (1)         Trappage (1)         Trappage (1)         Trappage (1)           C5         OFL_SR_GOP_2_2000700706200_0001         Main Soc Stafes (1) Main Dynamic Trappage (1)         Trappage (1)<	CS_OFFL_SIR_GOP_2_20200703T030342_20200703T035317_C001	Topography (1), Total Geocentric Ocean	
Display         Display <t< td=""><td>CS_OFFL_SIR_GOP_2_20200703T035317_20200703T044256_C001</td><td></td><td>There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records</td></t<>	CS_OFFL_SIR_GOP_2_20200703T035317_20200703T044256_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Call, Diff., Sill, Coll 2	CS_OFFL_SIR_GOP_2_20200703T044256_20200703T053230_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
0.9. JPT, SH, GOP 2, 2020/03110/114, 2020/03110010, TIM, COI     Tacography (1)     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/0310/114, 2020/031100103, 2001     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/0310/0100 (00 101 m, COI)     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/0310/00123, 2020/0701000005, 2020/0701000005, 2020/0701000005, 2020/0701100011, 2020     Main Bias Surface (1), Main Dynamic     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/031000123, 2020/0701100011, 2020     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/031000031 (100011, 2020/07011100011, 2001     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/031000013 (100011, 2020/0701110001, 2001     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/031100011, 2020/031110000, 2001     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/031100012, 2020/031110000, 2001     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 2020/031100012, 2020/031100001, 2001     Main Bias Surface (1), Main Dynamic     Tacography (1)     Tacography (1)       0.9. OFFL, SH, GOP 2, 20200/031100001, 20010, 2001     Main Bias Surface (1), Mai	CS_OFFL_SIR_GOP_2_20200703T053230_20200703T062209_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Corper_sin_code_s_account_statum infer_code on issues         Taggaraph (i)         Taggaraph (i)           Cis_OPPL_SIR_GOP_2_account_statum issues         Taggaraph (i)         Taggaraph (i)         Taggaraph (i)           Cis_OPPL_SIR_GOP_2_account_statum issues         Taggaraph (i)         Taggaraph (i)         Taggaraph (i)         Taggaraph (i)           Cis_OPPL_SIR_GOP_2_account_statum issues         Taggaraph (i)         Tag	CS_OFFL_SIR_GOP_2_20200703T062209_20200703T071144_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_GOP_2_2000/03108008_2000/03108086_C011       Tropogaphy (1) Total Geoemic Ocean Take (FES), Mon.Equilibrium Long Period Ocean Take Neglity (2000)         CS_OFFL_SIR_GOP_2_2000/03108006_2200/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/03108006_2000/031080000_2000/031080000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_2000/03108000_200000000000000000000000000000000	CS_OFFL_SIR_GOP_2_20200703T071144_20200703T080123_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CF_UFL_SIR_GOP_2_000/03108008_000/03108007_0001         Topography (1)         Topography (1)         Topography (1)           CS_OFFL_SIR_GOP_2_000/03108008_000/031108011_0001         Mean Ses String (1), Mean Dynamic Topography (1), Total Genoentin Coent Ses Trans (1), Mean Dynamic Topography (1), Total Genoentin Coent Test (1), Mean Dynamic Topography (1), Total Genoentin Coent Test (1), Mean Dynamic Topography (1), Total Genoentin Coent Test (1), Mean Dynamic Topography (1), Total Genoentin Coent Test (1), Mean Dynamic Topography (1), Total Genoentin Coent Test (1), Mean Dynamic Topography (1), Total Genoentin Coent Test (1), Mean Dynamic Topography (1), Mean Dynamic Topog	CS_OFFL_SIR_GOP_220200703T080123_20200703T085058_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	(solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
CS_OFFL_SIR_GOP_2_2020703T094037_20200703T103011_C001         Topography (1), Total Geocentric Ocean	CS_OFFL_SIR_GOP_220200703T085058_20200703T094037_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_GOP_2_20200703110301_20200703111950_C001         Topography (1), Total Geocentric Ocean Tide hagit (allution 1) and the Total Geocentric Ocean Tide hagit (allution 1) for one or more records           CS_OFFL_SIR_GOP_2_20200703111950_20207031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_00007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120925_0007031120705_0001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         There is a nerror with the MSS height (solution 1) and the Mean Dynamic Topography height (soluti	CS_OFFL_SIR_GOP_220200703T094037_20200703T103011_C001	Topography (1), Total Geocentric Ocean	
LS_OFFL_SIR_GOP_2_20200703T125904_20200703T125904_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T125904_20200703T125904_20200703T134838_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_GOP_2_20200703T125904_20200703T134838_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_GOP_2_20200703T143837_20200703T143817_20200703T152752_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_GOP_2_20200703T162752_20200703T162752_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records         CS_OFFL_SIR_GOP_2_20200703T167512752_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T161731_20200703T164619_C001       Topography height (solution 1) and the Mean Dynamic Topography	CS_OFFL_SIR_GOP_2_20200703T103011_20200703T111950_C001	Topography (1), Total Geocentric Ocean	
LS_OFFL_SIR_GOP_2_202007031125904_20200703T134838_C001       Topography (1)       Topography height (solution 1) for one or more recods         CS_OFFL_SIR_GOP_2_20200703T134838_20200703T134838_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more recods         CS_OFFL_SIR_GOP_2_20200703T143817_20200703T162752_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recods         CS_OFFL_SIR_GOP_2_20200703T162752_20200703T161731_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more recods         CS_OFFL_SIR_GOP_2_20200703T170705_20200703T176764_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOP_2_20200703T111950_20200703T120925_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_GOP_2_202007031134838_2020703T134838_200703T134838_2020703T134838_20200703T134838_20200703T1348317_0001         Topography (1)         To	CS_OFFL_SIR_GOP_220200703T120925_20200703T125904_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_GOP_2_20200703T154582_20200703T152752_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_GOP_2_20200703T162752_20200703T161731_C001       Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T161731_20200703T170705_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_GOP_2_20200703T161731_20200703T170705_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_GOP_2_20200703T170705_20200703T175644_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide Height (solution 1) and the Mean Dynamic Topography (1	CS_OFFL_SIR_GOP_2_20200703T125904_20200703T134838_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_GOP_2_20200703T143817_20200703T162752_20200703T161731_C001         Topography (1)         Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOP_2_20200703T167752_20200703T161731_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_20200703T167765_20200703T175644_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) and the Total Geocentric Ocean Tide (GC)           CS_OFFL_SIR_GOP_2_20200703T175644_20200703T184619_C001         Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GCT)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GCT)           CS_OFFL_SIR_GOP_2_20200703T184619_20200703T183558_C001         Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GCT)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GCT)           CS_OFFL_SIR_GOP_2_20200703T184619_20200703T193558_C001         Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GCT)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GCT)           CS_OFFL_SIR_GOP_2_20200703T193558_20200703T202533_2020703T225425_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution	CS_OFFL_SIR_GOP_2_20200703T134838_20200703T143817_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_GOP_2_20200703T161731_20200703T170705_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T161731_20200703T170705_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T17664_20200703T184619_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1). GOT for one or more records         CS_OFFL_SIR_GOP_2_20200703T184619_20200703T193558_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T193558_20200703T202533_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T21512_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T21512_2000703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOP_2_20200703T220446_20200703T225425_C001       Mean	CS_OFFL_SIR_GOP_2_20200703T143817_20200703T152752_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_GOP_2_20200703T17170705_20200703T175644_C001       Topography (1)       Topography leight (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T170705_20200703T175644_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T175644_20200703T184619_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Non-Equilibrium Long Period Ocean Tide Height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T193558_20200703T202533_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T21512_2020703T220446_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T221512_2020703T220446_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T221512_2020703T220446_C001       Mean Sea Surface (1), Mean Dynamic Topograp	CS_OFFL_SIR_GOP_2_20200703T152752_20200703T161731_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_GOP_2_20200703T170705_20200703T175644_C001       Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Masn Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T193558_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography theight (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T193558_20200703T202533_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) and the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide Height (solution 1) and the Total Geocentric Ocean T	CS_OFFL_SIR_GOP_2_20200703T161731_20200703T170705_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_GOP_2_20200703T175644_20200703T184619_C001       Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOP_2_20200703T184619_20200703T193558_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 (FES), Non-Equilibrium Long Period Ocean Tide (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T193558_20200703T202533_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide Meight (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T21512_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOP_2_20200703T21512_20200703T21512_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOP_2_20200703T211512_20200703T220446_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOP_2_20200703T220446_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T22646_20200703T225425_C001	CS_OFFL_SIR_GOP_220200703T170705_20200703T175644_C001	Topography (1), Total Geocentric Ocean	
CS_OFFL_SIR_GOP_2_20200703T184619_20200703T193558_C001       Topography (1), Total Geocentric Ocean Tide (GCT), Total Geocentric Ocean Tide (GCT)       Topography (1), Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOP_2_20200703T221512_20200703T220446_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records       There is an error with the MSS height (sol	CS_OFFL_SIR_GOP_2_20200703T175644_20200703T184619_C001	Topography (1), Total Geocentric Ocean	
CS_OFFL_SIR_GOP_2_20200703T193558_20200703T202533_C001       Topography (1), Total Geocentric Ocean       Topography height (solution 1) and the Total Geocentric Ocean         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001       Topography (1), Total Geocentric Ocean       There is an error with the MSS height (solution 1) and the Total Geocentric Ocean         CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001       Topography (1), Total Geocentric Ocean       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOP_2_20200703T211512_20200703T220446_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOP_2_20200703T220446_20200703T220446_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOP_2_20200703T220446_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOP_2_20200703T220446_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOP_2_20200703T225425_2000703T225425_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOP_2_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20200703T225425_20	CS_OFFL_SIR_GOP_2_20200703T184619_20200703T193558_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	(solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001       Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOP_2_20200703T220446_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T225425_2001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T225425_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T225425_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOP_2_20200703T193558_20200703T202533_C001	Topography (1), Total Geocentric Ocean	
CS_OFFL_SIR_GOP_2_20200703T220446_20200703T225425_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T220446_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T225425_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOP_2_20200703T225425_20200703T225425_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOP_2_20200703T202533_20200703T211512_C001	Topography (1), Total Geocentric Ocean	
CS_OFFL_SIR_GOP_2_202007031220446_202007031223425_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOP_2_20200703T211512_20200703T220446_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_GOP_2_20200703T220446_20200703T225425_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_GOP_220200703T225425_20200703T234400_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_GOP_2_20200703T234400_20200704T003339_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_GOP_2_20200703T234400_20200704T003339_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

# 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

# 6.6 P2P Measurement Quality Flag Check

### P2P Quality Flags (20Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

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

1

		30					
P2P Quality Flag	s (20Hz PLRM)						
Since the P2P Quality	Flags are copied direc	tly from the L2 Qual	ity Flags, please see Section	on 5.6 for the full list of p	roducts affected.		
Number of products v	vith errors:	29					
P2P Quality Flag	s (1 Hz & 1Hz PLRI	И)					
Since the P2P Quality	Flags are copied direc	tly from the L2 Qual	ity Flags, please see Section	on 5.6 for the full list of p	roducts affected.		
Number of products v	vith errors:	30					
6.8 P2P Ocean	Retracking Quali	ty Check					
P2P Retracking F Cryosat P2P data inclu		quality flag (field 19) t	for each 20-Hz measuremen	record. The bit value of th	is flag indicates any prob	lems when set.	
Ocean Retracking Qu	ality Flag (PLRM): This	lag is currently set fo	r products GOPR and GOPN	products over sea ice, bu	t this is to be expected.		
Number of products v	vith errors:	27					
P2P Retracking F	Flags PLRM						
CryoSat L2 data include	es an ocean retracking q	uality flag for each 20	-Hz PLRM measurement rec	ord. The bit value of this fl	ag indicates any problem	s when set.	
Ocean Retracking Qu	ality Flag (PLRM): This	lag is currently set fo	r products GOPR and GOPN	products over sea ice, bu	t this is to be expected.		
Number of products v	vith errors:	30					
			7. GOP QCC	Report Analysis	6		
The Quality Control for warnings is provided be		erforms a primary sur	vey of data products immedi	ately after production by th	e PDS and LTA processi	ng facilities. A list o	f the tests which raised errors o
Product type		Products	No. QCC Reports	No. Valid		/arnings	No. Errors
SIR_GOPM1E SIR GOPR1E		144 104	144 104	4		140 104	0 0
SIR_GOPN1E		103	103	3		100	0
SIR_GOPM_2		144	144	96		48	0
SIR_GOPR_2							
		104	104	27		77 58	0
SIR_GOPN_2 SIR_GOP_P2I 7.1 QCC Errors	2 P	104 103 29	104 103 29	27 45 0		77 58 29	0 0 0
SIR_GOPN_2 SIR_GOP_P2I	ts with errors:	103 29	103 29	45 0		58	0
SIR_GOPN_2 SIR_GOP_P2I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type	ts with errors:	0	103 29	45		58 29	0
SIR_GOPN_2 SIR_GOP_P2I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type SIR_GOPM1B	ts with errors:	103 29 0 2118 MVIOEPFDNCDF 0	103 29 Total nur MVIOEPNCDF 0	45 0	ach warning RBSZOPOEPFDNCDF 0	58 29 <b>RBSZOPOEPFDPL</b> 0	0 0 RMNCE RBSZOPOEPNCDF 0
SIR_GOPN_2 SIR_GOP_P2I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type	ts with errors:	103 29 0 2118	103 29 Total nur	45 0	ach warning	58 29	0
SIR_GOPN_2 SIR_GOP_221 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type SIR_GOPM18 SIR_GOPM18 SIR_GOPN18 SIR_GOPN12	ts with errors:	103 29 0 2118 MVIOEPFDNCDF 0 39 0 6	103 29 Total nur 0 36 0 30	45 0	ach warning RBSZOPOEPFDNCDF 0 38 0 22	58 29 <b>RBSZOPOEPFDPL</b> 0 0 0 26	0 0 0 0 0 32 0 16
SIR_GOPN_2 SIR_GOP_221 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type SIR_GOPM1B SIR_GOPM2 SIR_GOPN12 SIR_GOPN12 SIR_GOPN18	2 P  ts with errors:  C  S  S  S  S  S  S  S  S  S  S  S  S	103 29 0 2118 MVIOEPFDNCDF 0 39 0 6 6 0	103 29 Total nur 0 36 0 30 0	45 0	ach warning RBSZOPOEPFDNCDF 0 38 0 22 0	58 29 <b>RBSZOPOEPFDPL</b> 0 0 0 26 0	0 0 8 8 8 9 9 32 0 16 0 16 0
SIR_GOPN_2 SIR_GOP_221 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type SIR_GOPM18 SIR_GOPM18 SIR_GOPN18 SIR_GOPN12	ts with errors:	103 29 0 2118 MVIOEPFDNCDF 0 39 0 6	103 29 Total nur 0 36 0 30	45 0 nber of occurrences of e MUIONCDF 0 1 0 8	ach warning RBSZOPOEPFDNCDF 0 38 0 22	58 29 <b>RBSZOPOEPFDPL</b> 0 0 0 26	0 0 0 0 0 32 0 16
SIR_GOPN_2 SIR_GOP_221 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type SIR_GOPM1B SIR_GOPM2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPR1B SIR_GOPR2 Product Type	2 P Tts with errors: Ings Tts with warnings BCSHNCDF 140 0 100 0 100 0 103 0 RNELPOTONCDF	103 29 0 2118 MVIOEPFDNCDF 0 39 0 6 6 0 41 41	103 29 Total nur MVIOEPNCDF 0 36 0 30 0 41 20 8 7 8 7 8 7 8 7 8 7 8 9 9 8 9 9 9 9 9 9	45 0 ber of occurrences of en MVIONCDF 0 1 0 8 0 1 1 CERPEPOPFDPLRMSINNCE	RBSZOPOEPFDNCDF 0 38 0 22 0 38 38 1 RPEPOPFDSARNCDF	58 29	0 0 0 0 0 32 0 16 0 22 0 F RPEPOPLRMNCDF
SIR_GOPN_2 SIR_GOP_22I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor 7.2 QCC Warnin Number of QCC repor 9 CCC repor SIR_GOPM12 SIR_GOPM12 SIR_GOPM18 SIR_GOPN_2 SIR_GOPN18 SIR_GOPN2 SIR_GOPN18 SIR_GOPM18	P         P           tts with errors:         P           Tts with errors:         P           DGS         ESHNCDF           140         0           100         0           100         0           103         0           RNELPOTONCDF         0           0         0	103 29 0 2118 0 2118 0 39 0 6 0 41 41 <b>RPEPOPFDLRMNCE</b> 0	103 29 Total nur 0 36 0 30 0 41 <b>PF RPEPOPFDPLRMSARN</b> 0	45 0 nber of occurrences of ex- MVIONCDF 0 1 0 8 0 1 2 CERPEPOPFDPLRMSINNCE 0 0	Ach warning RBSZOPOEPFDNCDF 0 38 0 22 0 38 1 RPEPOPFDSARNCDF 0	58 29	0 0 0 0 0 32 0 16 0 22 0 0 16 0 22 0 0 16 0 0 22
SIR_GOPN_2 SIR_GOP_P21 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor 9 Product Type SIR_GOPM1B SIR_GOPN_2 SIR_GOPN_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B	2         P           ts with errors:         Image: Constraint of the second seco	103 29 0 2118 MVIOEPFDNCDF 0 39 0 6 6 0 41 41	103 29 Total nur MVIOEPNCDF 0 36 0 36 0 36 0 36 0 30 0 41 0 0 41	45 0 ber of occurrences of en MVIONCDF 0 1 0 8 0 1 1 CERPEPOPFDPLRMSINNCE	RBSZOPOEPFDNCDF 0 38 0 22 0 38 38 1 RPEPOPFDSARNCDF	58 29	0 0 0 0 0 32 0 16 0 22 0 F RPEPOPLRMNCDF
SIR_GOPN_2 SIR_GOP_22I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor 7.2 QCC Warnin Number of QCC repor 9 CCC repor SIR_GOPM12 SIR_GOPM12 SIR_GOPM18 SIR_GOPN_2 SIR_GOPN18 SIR_GOPN2 SIR_GOPN18 SIR_GOPM18	2 P  ts with errors:	103 29 0 2118 <b>MVIOEPFDNCDF</b> 0 39 0 6 6 0 41 41 <b>RPEPOPFDLRMNCE</b> 0 30 0 0 0	103 29 Total nur 0 36 0 30 0 41 <b>PF RPEPOPFDPLRMSARN</b> 0	45 0 nber of occurrences of e MVIONCDF 0 1 0 8 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2	ach warning RBSZOPOEPFDNCDF 0 38 0 22 0 38 IRPEPOPFDSARNCDF 0 0 0	58 29 <b>RBSZOPOEPFDPL</b> 0 0 0 26 0 32 <b>RPEPOPFDSINNCI</b> 0 0 0	0 0 0 0 0 32 0 16 0 22 0 0 16 0 22 0 0 16 0 22
SIR_GOPN_2 SIR_GOP_22I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor 9 COPM1B SIR_GOPM1B SIR_GOPN_2 SIR_GOPN1B SIR_GOPN_2 SIR_GOPN1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B	2	103 29 0 2118 0 2118 0 39 0 6 6 0 41 41 <b>RPEPOPFDLRMNCE</b> 0 30 0 0 0 0 0	103 29 Total nur 0 36 0 30 0 41 0 F RPEPOPFDPLRMSARN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 0 ber of occurrences of ex- MVIONCDF 0 1 0 8 0 1 1 CERPEPOPFDPLRMSINNCE 0 0 0 30 0 0	ach warning           RBSZOPOEPFDNCDF           0           38           0           22           0           38           Image: Contract of the second sec	58 29 <b>RBSZOPOEPFDPL</b> 0 0 0 26 0 26 0 32 <b>RPEPOPFDSINNC</b> 0 0 0 32 <b>S</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 32 0 16 0 22 0 16 0 22 0 0 16 0 22 0 0 16 0 22 0 0 16 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SIR_GOPN_2 SIR_GOP_22I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor 7.2 QCC Warnin Number of QCC repor 9 SIR_GOPM18 SIR_GOPM18 SIR_GOPN18 SIR_GOPN18 SIR_GOPN18 SIR_GOPM2 SIR_GOPM18 SIR_GOPM18 SIR_GOPM18 SIR_GOPM18 SIR_GOPM18 SIR_GOPM2	2 P  ts with errors:	103 29 0 2118 <b>MVIOEPFDNCDF</b> 0 39 0 6 6 0 41 41 <b>RPEPOPFDLRMNCE</b> 0 30 0 0 0	103 29 Total nur MVIOEPNCDF 0 36 0 36 0 30 0 41 20 41 20 50 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	45 0 <b>nber of occurrences of e</b> <b>MVIONCDF</b> 0 1 0 8 0 1 2 <b>CRPEPOPFDPLRMSINNCE</b> 0 0 0 30	RBSZOPOEPFDNCDF           0           38           0           22           0           38           IRPEPOPFDSARNCDF           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	58         29           29         0           0         0           0         0           26         0           32         RPEPOPFDSINNCLI           0         0           0         32	0 0 0 0 0 32 0 16 0 16 0 22 22 0 F RPEPOPLRMNCDF 0 24 0 0 0 0
SIR_GOPN_2 SIR_GOP_22I 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor 7.2 QCC Warnin Number of QCC repor 9 SIR_GOPM18 SIR_GOPM2 SIR_GOPM18 SIR_GOPN18 SIR_GOPM2 SIR_GOPM18 SIR_GOPM2 SIR_GOPM18 SIR_GOPM2 SIR_GOPM18 SIR_GOPM2 SIR_GOPM2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2	2	103 29 0 2118 0 2118 0 39 0 6 6 0 41 41 <b>RPEPOPFDLRMNCE</b> 0 30 0 0 0 0 0	103 29 Total nur 0 36 0 30 0 41 0 F RPEPOPFDPLRMSARN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 0 ber of occurrences of ex- MVIONCDF 0 1 0 8 0 1 1 CERPEPOPFDPLRMSINNCE 0 0 0 30 0 0	RBSZOPOEPFDNCDF           0           38           0           22           0           38 <b>RPEPOPFDSARNCDF</b> 0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 <td>58         29           29         29           8         29           0         0           0         0           0         26           0         26           0         32           RPEPOPFDSINNCI         0           0         0           35         0           0         0           35         0           0         0           0         0           85HAONCDF         0</td> <td>0 0 0 0 0 0 32 0 16 0 22 0 16 0 22 0 0 16 0 22 0 0 16 0 22 0 0 16 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	58         29           29         29           8         29           0         0           0         0           0         26           0         26           0         32           RPEPOPFDSINNCI         0           0         0           35         0           0         0           35         0           0         0           0         0           85HAONCDF         0	0 0 0 0 0 0 32 0 16 0 22 0 16 0 22 0 0 16 0 22 0 0 16 0 22 0 0 16 0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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SIR_GOPN_2 SIR_GOP_221 7.1 QCC Errors Number of QCC repor 7.2 QCC Warnin Number of QCC repor 7.2 QCC Warnin Number of QCC repor Product Type SIR_GOPM1B SIR_GOPN_2 SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN12	P         Image: Control of the im	103 29	103 29 Total nur MVIOEPNCDF 0 36 0 36 0 36 0 41 0 0 41 0 0 41 0 0 41 0 0 41 0 0 0 41 0 0 0 0 41 0 0 0 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0	45         0           nber of occurrences of e         MVIONCDF           0         1           0         3           0         1           0         3           0         0           0         0           1         0           8         0           1         0           8         0           1         0           30         0           0         0           27         0           42         0           65         5           SPHRTASCNSNCDF         1           1         0           1         0	RESCIPCIE           0           38           0           22           0           38           0           22           0           38           0           22           0           38           0           22           0           38           Image: Comparison of the system           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	58         29           29         29           RBSZOPOEPFDPL         0           0         0           0         26           0         26           0         32           RPEPOPFDSINNCI         0           0         35           0         0           35         0           0         25           0         25           0         25           0         38           SCSTODHRNCDF         0           0         104           0         104	0 0 0 0 0 0 0 32 0 16 0 22 0 16 0 22 0 0 22 0 0 22 0 0 0 22 0 0 0 0 0

 
 RPEPOPFDPLRMSINNCDI
 RPEPOPFDSINNCDF

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 Product Type SIR\_GOP\_2\_ RPEPOPSINNCDF 24 RSSBCONCDF RSSHAOFDNCDF RSSHAOFDPLRMNCDF RNELPOTONCDF 29 19 2 
 RSWHOEPFDPLRMNCDF
 RSWHOEPNCDF

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 16
 RSSHAONCDF Product Type SIR\_GOP\_2\_ RSWHOEPFDNCDF SPHLPQWNCDF 21 29 29

Test Description Key:				
Abbreviation	Test name	Details		
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter		
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		

MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) fo surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0