

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

<u>03/04/2020</u>

Penert Breduction	01 May 2020	Check	L1 & L2	P2P
Report Production:	01-May-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrucSet Occor Processor	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
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

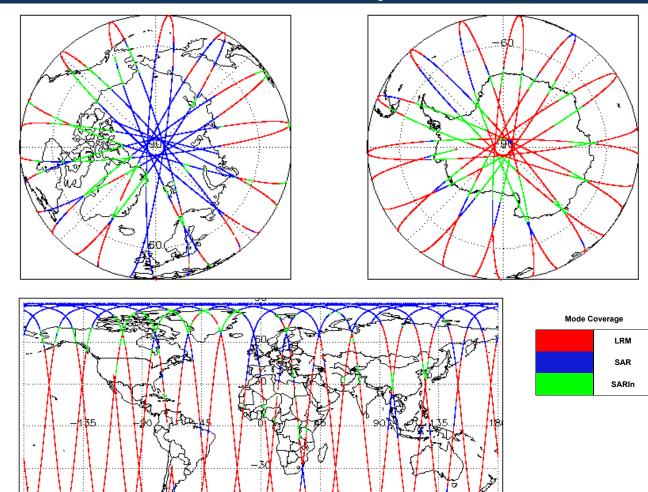
1. Overview

# Mission / Instrument News

02-Apr-2020 SIRAL unavailability on 02-Apr-2020 from 18:09:29 to 19:56:55 due to a planned orbit manoeuvre. 03-Apr-2020 None

04-Apr-2020 Nothing planned





# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

# 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: 0

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4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any incons	sistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1 OSARIn chains. A modification is required in the next release.	B GOPR and GOPN products becau	use the I1b_processing_quality_hr field is not correctly configured in the OSAR and
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 pr	e-determined baseline and also to c	heck 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 recor Number of products with errors: 0	d. The bit value of this flag indicates	s any problems when set.
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measure	nent record. The bit value of this fla	g indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR proc         Number of products with errors:       1		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200403T150702_20200403T151027_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
4.6.1.1P. Wayeform Group Data Chaok		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement recom	-	any problems when set.
Loss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 18	this is to be expected.	
Number of products with errors: 18		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200403T141021_20200403T144345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200403T213429_20200403T213642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T063417_20200403T063942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T090649_20200403T090911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T094600_20200403T094943_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T104607_20200403T104754_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T121825_20200403T121856_C001		The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T131433_20200403T131725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T153310_20200403T153403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T185508_20200403T185622_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T195005_20200403T195135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T203036_20200403T203536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200403T212817_20200403T213429_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200403T091134_20200403T091459_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200403T135254_20200403T140531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200403T171703_20200403T172714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200403T190530_20200403T190928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200403T220651_20200403T221009_C001	Loss of Echo	The tracking echo is missing for one or more records
5. G(	OP Level 2 Data Qual	lity Check
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0	ensure it consists of both an XML he	eader file (.HDR) and a binary product file (.DBL).
5.2 L2 Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any incons	sistencies 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 pr	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		· · ·

Number of products with errors:

# 5.4 L2 Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products 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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Number of products with errors:

S_OFFL_SIR_GOPN_2_20200403T082008_20200403T083550_C001 S_OFFL_SIR_GOPN_2_20200403T000012_20200403T000207_C001 S_OFFL_SIR_GOPN_2_20200403T041015_20200403T041117_C001	Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic	
S_OFFL_SIR_GOPN_2_20200403T041015_20200403T041117_C001	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
	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
S_OFFL_SIR_GOPN_2_20200403T044839_20200403T045005_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
S_OFFL_SIR_GOPN_2_20200403T045515_20200403T045822_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), Tot Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea Tide for one or more records
S_OFFL_SIR_GOPN_2_20200403T062916_20200403T063208_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
S_OFFL_SIR_GOPN_2_20200403T063417_20200403T063942_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
S_OFFL_SIR_GOPN_2_20200403T072513_20200403T072936_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), Tot Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea Tide for one or more records
S_OFFL_SIR_GOPN_2_20200403T080852_20200403T081128_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
S_OFFL_SIR_GOPN_2_20200403T090410_20200403T090522_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
S_OFFL_SIR_GOPN_2_20200403T094600_20200403T094943_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
S_OFFL_SIR_GOPN_2_20200403T104331_20200403T104555_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
S_OFFL_SIR_GOPN_2_20200403T104607_20200403T104754_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T112612_20200403T112802_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T113623_20200403T113839_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T122322_20200403T122752_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T130547_20200403T130726_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T140531_20200403T141021_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
S_OFFL_SIR_GOPN_2_20200403T144543_20200403T144924_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
S_OFFL_SIR_GOPN_2_20200403T162509_20200403T162827_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
S_OFFL_SIR_GOPN_2_20200403T163340_20200403T163506_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T171600_20200403T171703_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
S_OFFL_SIR_GOPN_2_20200403T181245_20200403T181353_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T185508_20200403T185622_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
S_OFFL_SIR_GOPN_2_20200403T203036_20200403T203536_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
S_OFFL_SIR_GOPN_2_20200403T212817_20200403T213429_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
S_OFFL_SIR_GOPN_2_20200403T221009_20200403T221420_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
S_OFFL_SIR_GOPN_2_20200403T225855_20200403T230116_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T230746_20200403T231100_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20200403T234854_20200403T235242_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPR_2_20200403T004259_20200403T005306_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_20200403T022025_20200403T022714_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_20200403T022714_20200403T022803_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_20200403T023824_20200403T023920_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_20200403T035907_20200403T040611_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_20200403T040611_20200403T040735_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_20200403T053814_20200403T054510_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_20200403T054510_20200403T054739_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_20200403T071941_20200403T072404_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_20200403T072404_20200403T072513_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_20200403T085737_20200403T090054_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_20200403T090054_20200403T090410_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_20200403T101558_20200403T102310_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_20200403T103715_20200403T104331_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_20200403T121856_20200403T122322_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_20200403T135254_20200403T140531_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_20200403T153648_20200403T154434_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_20200403T171703_20200403T172714_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_20200403T185622_20200403T190337_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_20200403T203536_20200403T204254_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_20200403T221420_20200403T221635_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_20200403T221635_20200403T222114_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_20200403T235242_20200404T000130_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, 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_20200403T150702_20200403T151027_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_20200403T000239_20200403T003124_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.
		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200403T010237_20200403T012908_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_20200403T013041_20200403T013548_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_20200403T013555_20200403T013923_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_20200403T014203_20200403T021647_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_20200403T030230_20200403T030902_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_20200403T031040_20200403T031621_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_20200403T032126_20200403T035531_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_20200403T040920_20200403T041015_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_20200403T041510_20200403T041621_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_20200403T042851_20200403T044831_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_20200403T050032_20200403T053514_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_20200403T054925_20200403T054937_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_20200403T055950_20200403T060423_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_20200403T060507_20200403T062241_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_20200403T062536_20200403T062722_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_20200403T064117_20200403T071046_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_20200403T071525_20200403T071604_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_20200403T071655_20200403T071703_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_20200403T073018_20200403T074837_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_20200403T074931_20200403T080300_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_20200403T081447_20200403T081829_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_20200403T082008_20200403T083550_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_20200403T083752_20200403T084714_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_20200403T090522_20200403T090649_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_20200403T091459_20200403T092632_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_20200403T094943_20200403T095730_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_20200403T095919_20200403T101454_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_2020403T102748_2020403T103157_C001         CCCG Allimeter Range Quality, CCCG Backscatter Quality         The OCCG Allimeter Range, SSHA, SWH and Backscatter Quality           CS_OFFL_SIR_GOPM_2_2020403T102251_2020403T112538_C001         Ocean Allimeter Range, SSHA, SWH and Backscatter Quality, CCCG Altimeter Range and Backscatter Quality Flags have for on or more records.         The OCCG Altimeter Range and Backscatter Quality Flags have for on or more records.           CS_OFFL_SIR_GOPM_2_2020403T113027_2020403T113253_C001         OCCG Altimeter Range and Backscatter Quality, CCCG Altimeter Range and Backscatter Quality         The OCCG Altimeter Range and Backscatter Quality Flags have for on or more records.           CS_OFFL_SIR_GOPM_2_2020403T113043_20200403T113044_C001         Ocean Altimeter Range and Backscatter Quality and Backscatter Quality         The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality           CS_OFFL_SIR_GOPM_2_2020403T113043_20200403T113040_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality           CS_OFFL_SIR_GOPM_2_2020403T13103_2020403T131433_C001         DCCCG Altimeter Range, SSHA, SWH and Backscatter Quality         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality           CS_OFFL_SIR_GOPM_2_2020403T131720_2020403T131433_C001         DCCCG Altimeter Range, SSHA, SWH and Backscatter Quality         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality           CS_OFFL_SIR_GOPM_2_20200403T114024_20200403T114792_C001 </th <th>ity Flags ave been been set ity Flags ave been ity Flags ave been been set ity Flags ave been been set ity Flags ave been been set ity Flags ave been</th>	ity Flags ave been been set ity Flags ave been ity Flags ave been been set ity Flags ave been been set ity Flags ave been been set ity Flags ave been
CS_OFFL_SIR_GOPM_2_20200403T10231_20200403T112539_C001       and Backscatter Quality       and the COCG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T113027_20200403T113023_C001       COCG Altimeter Range SNA, SVH and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T113043_20200403T120444_C001       Cocean Altimeter Range, SSHA, SVH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SVH and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T112555_20200403T120444_C001       Cocean Altimeter Range, SSHA, SVH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SVH and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T12555_20200403T130440_C001       Cocean Altimeter Range and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T131013_20200403T131433_C001       COCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T131729_20200403T134530_C001       Cocean Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T14122_20200403T144345_C001       Cocean Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T14424_20200403T144345_C001       Altimeter Range and Backscatter Quality       The OCCGA Altimeter Range and Backscatter Quality Flags have for one or more records. <td>ave been been set ity Flags ave been ity Flags ave been been set ity Flags ave been ity Flags ave been ity Flags ave been ity Flags</td>	ave been been set ity Flags ave been ity Flags ave been been set ity Flags ave been ity Flags ave been ity Flags ave been ity Flags
DS_OFFL_SIR_GOPM_2_20204031113423_20001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_2020403T113843_20200403T120444_0001       Coean Attimeter Range_SSHA_SWH and Backscatter Quality at for one or more records.       The Ocean Attimeter Range and Backscatter Quality at for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T1123553_20200403T130440_0001       Coean Attimeter Range_SSHA_SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T131013_20200403T131433_0001       Coean Attimeter Range_SSHA_SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T131013_20200403T131433_0001       COEG Attimeter Range_SSHA_SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T131013_20200403T131433_0001       Coean Attimeter Range_Quality, OCOG Attimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T131453_0001       Coean Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T1314732_0001       Coean Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T141021_20200403T144345_0001       Coean Attimeter Range ASHA_SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T144524_20200403T145503_0001       Coean Attimeter Range ASHA_SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T145623_20200403T145504_0001       Coean Attimeter Range ASHA_SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T145623_2020040	ity Flags ave been ity Flags ave been been set ity Flags ave been been set ity Flags ave been ity Flags ave been ity Flags ave been
CS_OFFL_SIR_GOPM_2_20200403T113843_20200403T120444_C001       and Backscatter Quality, COCG       and the COCG Altimeter Range and Backscatter Quality est for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T123553_20200403T130440_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality est for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T131013_20200403T131433_C001       Backscatter Quality, COCG       The OCean Altimeter Range and Backscatter Quality Flags IA         CS_OFFL_SIR_GOPM_2_20200403T131013_20200403T131433_C001       Backscatter Quality, COCG       The OCeGA Altimeter Range and Backscatter Quality Flags IA         CS_OFFL_SIR_GOPM_2_20200403T13172_20200403T134530_C001       Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The OCeGA Altimeter Range and Backscatter Quality Flags IA         CS_OFFL_SIR_GOPM_2_20200403T134530_C001       Altimeter Range, Callity, COCG       The OCCGA Altimeter Range and Backscatter Quality Flags IA         CS_OFFL_SIR_GOPM_2_20200403T134530_C001       Backscatter Quality, COCG       The OCCGA Altimeter Range and Backscatter Quality Flags IA         CS_OFFL_SIR_GOPM_2_20200403T144345_C001       COCGA Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags IA         CS_OFFL_SIR_GOPM_2_20200403T144924_2020403T144345_C001       COCGA Altimeter Range, SSHA, SWH and Backscatter Quality, Flags IA         CS_OFFL_SIR_GOPM_2_20200403T144924_2020403T145503_C001       COCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags IA      <	ave been ity Flags ave been been set ity Flags ave been been set ity Flags ave been ity Flags ave been ity Flags
CS_OFFL_SIR_GOPM_2_20200403T123653_20200403T130440_C001       and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, SCOG Backscatter Quality, OCCG Backscatter Quality, OCCG CS_OFFL_SIR_GOPM_2_20200403T131013_20200403T131433_C001       DCCG Altimeter Range Quality, OCCG Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags I and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, SCCG Altimeter Range and Backscatter Quality Set for one or more records.       The OCCG Altimeter Range and Backscatter Quality Set for one or more records.	been set ity Flags ave been been set ity Flags ave been been set ity Flags ave been ity Flags
CS_OFFL_SIR_GOPM_2_202004031131013_202004031131435_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T131729_20200403T134530_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I Altimeter Range Altimeter Range and Backscatter Quality Flags I Altimeter Range Altimeter Range and Backscatter Quality Flags I Altimeter Range Altimeter Range and Backscatter Quality Flags I Altimeter Range and Backscatter Qu	ity Flags ave been been set ity Flags ave been been set ity Flags ave been ity Flags ity Flags
CS_OFFL_SIR_GOPM_2_20200403T131729_20200403T134530_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T134541_20200403T134732_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T141021_20200403T144345_C001       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T141021_20200403T144345_C001       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T144924_20200403T145503_C001       Ocean Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T145623_20200403T145503_C001       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T145623_20200403T145623_20200403T16247_C001       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T165237_C001       Ocean Altimeter Range and Backscatter Quality Flags I       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T162827_20200403T162307_C001       Ocean Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T162827_20200403T163340_C001       OCOG Altimeter Range Qual	been set ity Flags ave been been set ity Flags ave been ity Flags
CS_OFFL_SIR_GOPM_2_20200403T144341_20200403T144345_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T141021_20200403T144345_C001       Ocean Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T144924_20200403T144345_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG	ity Flags ave been been set ity Flags ave been ity Flags
CS_OFFL_SIR_GOPM_2_20200403T141021_20200403T144345_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T144924_20200403T145503_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T144924_20200403T145503_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I       The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T145623_20200403T150247_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T154841_20200403T162307_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T162827_20200403T163340_C001       OCCG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality       The OCCG Altimeter Range and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T162827_20200403T165524_C001       OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I       The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T165524_C001       OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I       The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I         CS_OFFL_SIR_GOPM_2_20200403T165524_C001       OCCG Altimeter Range, SSHA, SW	been set ity Flags ave been ity Flags
CS_OFFL_SIR_GOPM_2_20200403T144924_20200403T145503_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T145623_20200403T150247_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T154841_20200403T162307_C001       Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I and Backscatter Quality, OCOG         CS_OFFL_SIR_GOPM_2_20200403T163524_20200403T165524_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backsca	ity Flags ave been ity Flags
CS_OFFL_SIR_GOPM_2_20200403T145623_20200403T150247_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T154841_20200403T162307_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 I and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20200403T162827_20200403T163340_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range a	ave been ity Flags
CS_OFFL_SIR_GOPM_2_20200403T154841_20200403T162307_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T162827_20200403T162324_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T162827_20200403T163340_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags I and Backscatter Quality, OCOG         CS_OFFL_SIR_GOPM_2_20200403T163524_20200403T165524_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	
CS_OFFL_SIR_GOPM_2_202004031162827_202004031165340_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_20200403T163524_20200403T165524_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200403T163524_20200403T165524_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I Altimeter Range and Backscatter Quality Flags I Set for one or more records.	been set
Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Qua	
CS_OFFL_SIR_GOPM_2_20200403T172714_20200403T180053_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags I Altimeter Range and Backscatter Quality Flags I set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200403T180607_20200403T180827_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Cocod Altimeter Range and Backscatter Quality Flags have for one or more records.	been set
CS_OFFL_SIR_GOPM_2_20200403T180833_20200403T181245_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have for one or more records.	been set
CS_OFFL_SIR_GOPM_2_20200403T181448_20200403T184317_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200403T184341_20200403T185107_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200403T190928_20200403T191803_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200403T192243_20200403T193438_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG And the OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range Altim	
CS_OFFL_SIR_GOPM_2_20200403T193626_20200403T194029_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I Altimeter Range and Backscatter Quality Flags I Set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200403T194205_20200403T194725_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	been set
CS_OFFL_SIR_GOPM_2_20200403T194744_20200403T194949_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	been set
CS_OFFL_SIR_GOPM_2_20200403T195450_20200403T195510_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I and the OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200403T195838_20200403T201103_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags I set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags I set for one or more records.	

CS_OFFL_SIR_GOPM_2_20200403T201309_20200403T202521_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_20200403T202745_20200403T202931_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_20200403T204254_20200403T204313_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_20200403T205234_20200403T210204_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_20200403T210406_20200403T211942_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_20200403T212131_20200403T212626_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_20200403T212643_20200403T212654_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_20200403T212700_20200403T212817_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_20200403T213429_20200403T213642_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_20200403T215355_20200403T215700_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_20200403T215816_20200403T220043_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_20200403T223116_20200403T223133_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_20200403T224201_20200403T225850_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_20200403T230559_20200403T230608_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_20200403T230614_20200403T230746_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_20200403T231141_20200403T233712_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_20200403T233723_20200403T234649_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_20200403T005412_20200403T005427_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_20200403T022803_20200403T022829_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_20200403T094354_20200403T094550_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_20200403T221009_20200403T221420_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_20200403T071046_20200403T071525_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_20200403T130440_20200403T130547_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_20200403T144345_20200403T144543_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_20200403T162307_20200403T162509_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_20200403T221635_20200403T222114_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (20Hz PLRM)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200403T000012_20200403T000207_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_20200403T021647_20200403T021844_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_20200403T021902_20200403T022025_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_20200403T022803_20200403T022829_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_20200403T025018_20200403T025133_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_20200403T030923_20200403T031040_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_20200403T035749_20200403T035827_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_20200403T041015_20200403T041117_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_20200403T041621_20200403T041641_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_20200403T060423_20200403T060507_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_20200403T062916_20200403T063208_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_20200403T063417_20200403T063942_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_20200403T072513_20200403T072936_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_20200403T081829_20200403T082008_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_20200403T084714_20200403T085028_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_20200403T094122_20200403T094238_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_20200403T104331_20200403T104555_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_20200403T104607_20200403T104754_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_20200403T112612_20200403T112802_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_20200403T120444_20200403T120813_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_20200403T121709_20200403T121725_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_20200403T122322_20200403T122752_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_20200403T122833_20200403T122956_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_20200403T130547_20200403T130726_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_20200403T131433_20200403T131725_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_20200403T140531_20200403T141021_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_20200403T144543_20200403T144924_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_0FFL_SIR_GOPN_2_20200403T151202_20200403T151536_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_20200403T152404_20200403T152605_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_20200403T152643_20200403T152701_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_20200403T162509_20200403T162827_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_20200403T163340_20200403T163506_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_20200403T165524_20200403T165837_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_20200403T171600_20200403T171703_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_20200403T181245_20200403T181353_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_20200403T203036_20200403T203536_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_20200403T204838_20200403T205234_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_20200403T211945_20200403T212131_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_20200403T212817_20200403T213429_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_20200403T221009_20200403T221420_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_20200403T225855_20200403T230116_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_20200403T234649_20200403T234811_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_20200403T234854_20200403T235242_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_20200403T004259_20200403T005306_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_20200403T021844_20200403T021902_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_20200403T022025_20200403T022714_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_20200403T035907_20200403T040611_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_20200403T040749_20200403T040814_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_20200403T040820_20200403T040920_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_20200403T041123_20200403T041510_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_20200403T041730_20200403T042052_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_20200403T045822_20200403T050032_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_20200403T053755_20200403T053802_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_20200403T053814_20200403T054510_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_20200403T071046_20200403T071525_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_20200403T071941_20200403T072404_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_20200403T074837_20200403T074931_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_20200403T080300_20200403T080852_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_20200403T085737_20200403T090054_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_20200403T101558_20200403T102310_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_20200403T103715_20200403T104331_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_20200403T104754_20200403T104853_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_20200403T104911_20200403T105128_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_20200403T121445_20200403T121709_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_20200403T121856_20200403T122322_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_20200403T135254_20200403T140531_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_20200403T144345_20200403T144543_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_20200403T152941_20200403T153305_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_20200403T153648_20200403T154434_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_20200403T162307_20200403T162509_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_20200403T170844_20200403T171320_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_20200403T171703_20200403T172714_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_20200403T180053_20200403T180222_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_20200403T185622_20200403T190337_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_20200403T195135_20200403T195450_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_20200403T201103_20200403T201309_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_20200403T203536_20200403T204254_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_20200403T221635_20200403T222114_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_20200403T231100_20200403T231141_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_20200403T235242_20200404T000130_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, whi	ich are summarised below.					
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for proc Number of products with errors: 184	ducts over sea ice, which is to be expected	l.				
5.8 L2 Ocean Retracking Quality Check						
L2 Retracking Flags (20Hz)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurer	ment record. The bit value of this flag indic	ates any problems when set.				
Ocean Retracking Quality Flag: This flag is currently set for products over land a	nd 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: 59						
L2 Retracking Flags (20Hz, PLRM)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM me						
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GC	DPR and GOPN products over sea ice, but	this is to be expected.				
Number of products with errors: 147						
6. <mark>GOP</mark> L2 F	Pole-to-Pole Data Quality	/ Check				
6.1 P2P Product Format Check						
Each product, retrieved and unpacked from the science server, is checked to ensu	ro it consists of both on XML booder file ( )	HDP) and a NetCDE product file ( no)				
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 SP	H in order to identify any inconsistencies a	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-det	ermined baseline and also to check the va	lidity of Auxiliary Data Files is correct.				
Number of products with errors: 0						
6.4 P2P Auxiliary Correction Error Check						
For all products, the auxiliary corrections within the Geophysical Group are checke	d for the default error value (32767).					
Currently, there are some common auxiliary correction errors raised in the Le followed by a table highlighting any additional issues which may arise from t		e to surface type. All common flags are summarised in the list below,				
> ECMWF Meteo Corrections: Currently the following corrections are not compute Correction and the U-Wind and V-Wind components of the ECMWF model wind ve not reported in the table below.						
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for proc	ducts over sea ice, but this is to be expected	ed.				
> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.						
Number of products with errors: 30						
Product	Test Failed	Description				
CS_OFFL_SIR_GOP_2_20200402T235650_20200403T004628_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_220200403T004628_20200403T013604_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_220200403T013604_20200403T022541_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_220200403T022541_20200403T031517_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_220200403T031517_20200403T040455_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic				
CS_OFFL_SIR_GOP_220200403T040455_20200403T045431_C001	Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), 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_220200403T045431_20200403T054408_C001	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), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records				

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CS_OFFL_SIR_GOP_220200403T054408_20200403T063344_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_20200403T063344_20200403T072322_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_20200403T072322_20200403T081258_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), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records			
CS_OFFL_SIR_GOP_2_20200403T081258_20200403T090236_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_20200403T090236_20200403T095212_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_20200403T095212_20200403T104149_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_20200403T104149_20200403T113125_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_20200403T113125_20200403T122103_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_20200403T122103_20200403T131039_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_220200403T131039_20200403T140016_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_20200403T140016_20200403T144953_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_20200403T144953_20200403T153930_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_20200403T153930_20200403T162906_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_20200403T162906_20200403T171844_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_20200403T171844_20200403T180820_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_20200403T180820_20200403T185757_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_20200403T185757_20200403T194733_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_20200403T194733_20200403T203711_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_20200403T203711_20200403T212647_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_220200403T212647_20200403T221624_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_20200403T221624_20200403T230600_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_20200403T230600_20200403T235538_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records			
CS_OFFL_SIR_GOP_220200403T235538_20200404T004514_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			
6.5 P2P Measurement Confidence Data Check	6.5 P2P Measurement Confidence Data Check				
CryoSat P2P data includes a measurement confidence flag for each 20-Hz measu	rement record. The bit value of this flag inc	licates any problems when set.			
Number of products with errors: 1					
6.6 P2P Measurement Quality Flag Check					

6.6 P2P	Measurement	Quality	Flag	Che
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P2P Quality Flags (20Hz)		
CryoSat P2P data includes Quality Flags for	h 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.	
Since the P2P Quality Flags are copied of	ly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	29	
P2P Quality Flags (20Hz PLRM)		
Since the P2P Quality Flags are copied of	ly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	29	
P2P Quality Flags (1 Hz & 1Hz P	()	
Since the P2P Quality Flags are copied of	ly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	30	

P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

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Number of products with errors:

## P2P Retracking Flags PLRM

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

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

Number of products with errors: