

QA4EO Daily Report for GOP data:

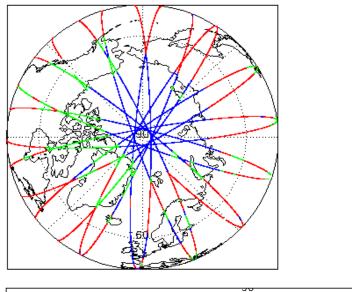
24/08/2020

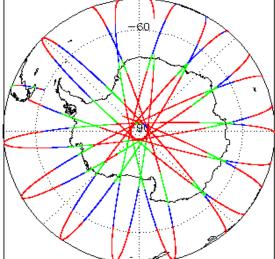
Demant Draductions	01.0 0000	Check	L1 & L2	P2P
Report Production:	24-Sep-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor used.	CryoSal Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2

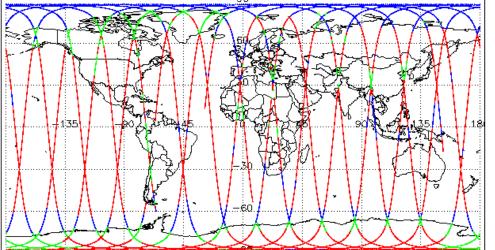
2. Global Coverage

1. Overview

Mission / Instru	iment News
23-Aug-2020	None
24-Aug-2020	None
25-Aug-2020	Unavailability 07:47:09 to 08:10:12









SARIn

3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain.		
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.				
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-	determined baseline and also to check the	validity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record	. The bit value of this flag indicates any prot	plems when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurement	ent record. The bit value of this flag indicate	is any problems when set.		
Attitude Correction Missing: This flag is currently set in error for GOPR produ	cts due to a configuration issue. This is bei	ng investigated and will be updated in the next SW update.		
Number of products with errors: 4				
Product	Test Failed	Description		
CS OFFL SIR GOPM1B 20200824T015605 20200824T020329 C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more		
CS OFFL SIR GOPM1B 20200824T021412 20200824T023218 C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more		
CS_OFFL_SIR_GOPM1B_20200824T130423_20200824T131713_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more		
CS_OFFL_SIR_GOPM1B_20200824T134914_20200824T135517_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more		
		records		
4.6 L1B Waveform Group Data Check				
4.0 LTB Wavelonni Group Data Check				
CryoSat L1B data includes a waveform data flag for each measurement record.	The bit value of this flag indicates any prob	lems when set.		
•		lems when set.		
CryoSat L1B data includes a waveform data flag for each measurement record.		lems when set.		
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but the		lems when set.		
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but the Number of products with errors: 14	nis is to be expected.			
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but the Number of products with errors: 14 Product	nis is to be expected.	Description		
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but th Number of products with errors: 14 Product CS_OFFL_SIR_GOPM1B_20200824T120935_20200824T122415_C001	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records		
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CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but the Number of products with errors: 14 Product CS_OFFL_SIR_GOPM1B_20200824T120935_20200824T122415_C001 CS_OFFL_SIR_GOPM1B_20200824T020554_20200824T1202644_C001 CS_OFFL_SIR_GOPM1B_20200824T003511_20200824T003531_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T021125_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T021125_C001 CS_OFFL_SIR_GOPN1B_20200824T035119_20200824T035514_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_0200824T035524_C001 CS_OFFL_SIR_GOPN1B_20200824T102159_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T12019_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T133925_20200824T134120_C001 CS_OFFL_SIR_GOPN1B_20200824T151514_20200824T152026_C001 CS_OFFL_SIR_GOPN1B_20200824T192204_20200824T192430_C001 CS_OFFL_SIR_GOPN1B_20200824T121357_20200824T211755_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo		
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but the Number of products with errors: 14 Product CS_OFFL_SIR_GOPM1B_20200824T120935_20200824T122415_C001 CS_OFFL_SIR_GOPM1B_20200824T02554_20200824T1202644_C001 CS_OFFL_SIR_GOPM1B_20200824T003511_20200824T003531_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T021125_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T035113_C001 CS_OFFL_SIR_GOPN1B_20200824T035119_20200824T035524_C001 CS_OFFL_SIR_GOPN1B_20200824T02159_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T102159_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T120119_20200824T134120_C001 CS_OFFL_SIR_GOPN1B_20200824T151514_20200824T152026_C001 CS_OFFL_SIR_GOPN1B_20200824T1337_20200824T152026_C001 CS_OFFL_SIR_GOPN1B_20200824T1357_20200824T1211755_C001 CS_OFFL_SIR_GOPR1B_20200824T211357_20200824T1211755_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T220756_C001 CS_OFFL_SIR_GOPR1B_2020	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records		
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but the Number of products with errors: 14 Product CS_OFFL_SIR_GOPM1B_20200824T120935_20200824T122415_C001 CS_OFFL_SIR_GOPM1B_20200824T02554_20200824T02644_C001 CS_OFFL_SIR_GOPN1B_20200824T02554_20200824T003531_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T021125_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T021125_C001 CS_OFFL_SIR_GOPN1B_20200824T035119_20200824T035524_C001 CS_OFFL_SIR_GOPN1B_20200824T102159_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T120119_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T120119_20200824T102204_C001 CS_OFFL_SIR_GOPN1B_20200824T15514_20200824T152026_C001 CS_OFFL_SIR_GOPN1B_20200824T133925_20200824T192430_C001 CS_OFFL_SIR_GOPN1B_20200824T1237_20200824T192430_C001 CS_OFFL_SIR_GOPN1B_20200824T1237_20200824T21755_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_2020824T220760_2076 CS_OFFL_SIR_GOPR1B_20200824T00	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records		
CryoSat L1B data includes a waveform data flag for each measurement record. Loss of Echo Flag: This flag is currently set for some products over land, but the Number of products with errors: 14 Product CS_OFFL_SIR_GOPM1B_20200824T120935_20200824T122415_C001 CS_OFFL_SIR_GOPM1B_20200824T02554_20200824T123724_C001 CS_OFFL_SIR_GOPM1B_20200824T003511_20200824T003531_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T021125_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T035113_C001 CS_OFFL_SIR_GOPN1B_20200824T035119_20200824T035524_C001 CS_OFFL_SIR_GOPN1B_20200824T021015_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T12019_20200824T102318_C001 CS_OFFL_SIR_GOPN1B_20200824T12019_20200824T134120_C001 CS_OFFL_SIR_GOPN1B_20200824T151514_20200824T152026_C001 CS_OFFL_SIR_GOPN1B_20200824T1337_20200824T152026_C001 CS_OFFL_SIR_GOPN1B_20200824T1357_20200824T1211755_C001 CS_OFFL_SIR_GOPR1B_20200824T211357_20200824T1221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T221056_C001 CS_OFFL_SIR_GOPR1B_20200824T220720_20200824T220756_C001 CS_OFFL_SIR_GOPR1B_20	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records		

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

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

 Der Der Grund - Construction of C	Number of products with errors: 54		
Big Unit Disputs Autor Nyamini Tropography (plantamini Tropogr	Product	Test Failed	Description
Carl, Dirac, Junio, Junia, Junio, Junio, Junio, Junio, Junio, Junio, Junio, J	CS_OFFL_SIR_GOPM_2_20200824T054147_20200824T054404_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Carl, Diell, Computer, Standberg, Consolution (1999) March Bergler, Standberg, Consolution (1999) Pression ends	CS_OFFL_SIR_GOPM_2_20200824T103112_20200824T105409_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS, DHL, SR, GOM, 2. 2020821102412 (202082110881). C011 Incompany (1), Iddi Cossenti Cosseni (Legaranty expl (packed) (Legaranty expl (packed) (Legaranty expl (packed)). Exploration (Legaranty expl (packed)	CS_OFFL_SIR_GOPM_2_20200824T123048_20200824T124553_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CSL DF-L_SRL GOPL_2_RECORD2100002100112_20200021101122_0001 Insertion 1, fair Section 1, fair Se	CS_OFFL_SIR_GOPM_2_20200824T170740_20200824T170845_C001	Topography (1), Total Geocentric Ocean	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
S2_0FT_SR_COPM_2_2000864101160_0000841021132_0001 Transparately (1) Transparately (1) Transparately (1) CS_COPT_SR_COPM_2_2000864102103_0000841021132_0001 Mem Set Subject (1), Mem Drawnic Transparately (1) Transparately (1) CS_COPT_SR_COPM_2_2000864102103_000084102113_0001 Mem Set Subject (1), Mem Drawnic Transparately (1) Tra	CS_OFFL_SIR_GOPN_2_20200824T003111_20200824T003531_C001	Topography (1), Total Geocentric Ocean	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
Start Trapsgraph (1) Trapsgraph (1) Trapsgraph (1) Trapsgraph (1) 65, 0FTL_SR_OOPL_2.0200841121259_020084112142_012 Mean Dynamic Trapsgraph (1) There is an error with the Mean Dynamic Trapsgraph (1) There is an error with the Mean Dynamic Trapsgraph (1) 65, 0FTL_SR_OOPL_2.0200841104204_20000841104204_20000841104204 Mean Dynamic Trapsgraph (1) There is an error with the Mean Dynamic Trapsgraph (2) 65, 0FTL_SR_OOPL_2.0200841104204_20000841044481_0.001 Mean Dynamic Trapsgraph (1) There is an error with the Mean Dynamic Trapsgraph (2) 62, 0FTL_SR_OOPL_2.02008411044204_20000841044481_0.001 Mean Dynamic Trapsgraph (1) There is an error with the Mean Dynamic Trapsgraph (2) 62, 0FTL_SR_OOPL_2.02008411044204_20000841044481_0.001 Mean Dynamic Trapsgraph (1) There is an error with the Mean Dynamic Trapsgraph (2) 62, 0FTL_SR_OOPL_2.0200841104204_200008410410314_0110304_01001 Mean Dynamic Trapsgraph (1) There is an error with the Mean Dynamic Trapsgraph (2) 63, 0FTL_SR_OOPL_2.0200841104204_2000084101010304_0100101 Tead Second Coloren Tide (0) There is an error with the Mean Dynamic Trapsgraph (2) 63, 0FTL_SR_OOPL_2.0200841104203_000001 Tead Second Coloren Tide (00) There is an error with the Mean Dynamic Trapsgraph (2) 64, 0FTL_SR_OOPL_2.020084110410304_0100000411111 Tead Second Coloren Tide (00) Tea	CS_OFFL_SIR_GOPN_2_20200824T011456_20200824T011732_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Sc. OFF., SIR, GOPL, 2, 20200241102432, 20200241102412, 20200 Heart Dynamic Topography (1) There is an error with the MSS happi (solution 1) and the Man Dynamic Topography (1) CS, OFFL, SIR, GOPL, 2, 20200241102432, 20200241110243, 202002411	CS_OFFL_SIR_GOPN_2_20200824T021015_20200824T021125_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CSI DFL Site CoPL Site CoPL Site CoPL Topography Height Couldon 1) for one or none records CSI DFL Site CoPL S	CS_OFFL_SIR_GOPN_2_20200824T021236_20200824T021412_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Sc. DFH_SIN_LOW_2_200084104303 Deam Dynamic Topgage/pt(1) or mon records CS_OFFL_SIN_COPN_2_200084104324_2020884104448_0001 Mean Dynamic Topgage/pt(1) There is an error with the Mean Dynamic Topgage/pt(2) CS_OFFL_SIN_COPN_2_2020824104428_2020884104448_0001 Mean Dynamic Topgage/pt(1) There is an error with the Mean Dynamic Topgage/pt(2) CS_OFFL_SIN_COPN_2_2020824104448_0001 Mean Dynamic Topgage/pt(1) There is an error with the Mean Dynamic Topgage/pt(2) CS_OFFL_SIN_COPN_2_2020824109250_2020824109358_001 Mean Dynamic Topgage/pt(1) There is an error with the MSS begin (solution 1) at the Mean Dynamic Topgage/pt (1). CS_OFFL_SIN_COPN_2_20208241092500_20208241092500_00000 Total Genomic Deam Tale (GOT) There is an error with the MSS begin (solution 1) at the Mean Dynamic Topgage/pt (1). There is an error with the MSS begin (solution 1) at the Mean Dynamic Topgage/pt (1). CS_OFFL_SIN_COPN_2_20208241092100_20208241092100_0000 Mean Sea Surface (1). Mean Dynamic Topgage/pt (1). There is an error with the MSS begin (solution 1) at the Mean Dynamic Topgage/pt (1). CS_OFFL_SIN_COPN_2_20208241102160_20208241102110_C001 Mean Sea Surface (1). Mean Dynamic Topgage/pt (1). There is an error with the MSS begin (solution 1) and the Mean Dynamic Topgage/pt (1). CS_OFFL_SIN_COPN_2_20208241102160_2000041110201_C001 Mean Sea Surface (1). Mean Dynamic Topgage/pt (1). There is an error with the MSS begin (solution	CS_OFFL_SIR_GOPN_2_20200824T034933_20200824T035113_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
SS_DFH_SIN_QUE_2_000084110431_QUE West Dynamic (toggspip)(1) or more records CS_OFFL_SIR_GOPN_2_000084110429_200084110431_QUE Mess Dynamic Toggspip)(1) or more records CS_OFFL_SIR_GOPN_2_000084110429_200084110431_QUE Mess Dynamic Toggspip)(1) Toggspip)(1) CS_OFFL_SIR_GOPN_2_000084110429_200084110535_QUE Mess Dynamic Toggspip)(1) Toggspip)(1) CS_OFFL_SIR_GOPN_2_000084110429_200084110535_QUE Mess Dynamic Toggspip)(1) Toggspip)(1) Toggspip)(1) CS_OFFL_SIR_GOPN_2_0000841105350_0000841105430_QUE Toggspip)(1) Tog	CS_OFFL_SIR_GOPN_2_20200824T035119_20200824T035524_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_DFL_SR_COPN_2_2020062410422_000024104449_0001 Weall (rythine 1 opgraphy (i)) or noce records CS_OFFL_SR_COPN_2_20200624105204_0200024105336_0001 Topography (i), Total Geocentric Ocean Topography (i) CS_OFFL_SR_COPN_2_20200624105300_20200824106400_001 Total Geocentric Ocean Topography (ii) CS_OFFL_SR_COPN_2_20200624105300_20200824106400_001 Total Geocentric Ocean Total Geocentric Ocean CS_OFFL_SR_COPN_2_20200624106500_202008241064000_001 Mean Ses Surface (1), Mean Dynamic Topography height (lockion 1) for one or nor or o	CS_OFFL_SIR_GOPN_2_20200824T043224_20200824T043413_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SR_GOPN_2_2220824105202_2220824105524_C001 Topograph (pil) Total Geocenic Coean Tide (CS) Total Geocenic Coean Tide	CS_OFFL_SIR_GOPN_2_20200824T044225_20200824T044448_C001		
CS_OFFL_SIR_GOPN_2_20200824T075200_20200824T064000_0001 Mean Ses Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T08300_20200824T084000_0001 Total Geocentric Ocean Tide (Column) Toto recer or more records CS_OFFL_SIR_GOPN_2_20200824T08300_20200824T084000_0001 Total Geocentric Ocean Tide (Column) Toto recer or more records CS_OFFL_SIR_GOPN_2_20200824T083860_20200824T084115_0001 Mean Ses Surface (1). Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T102159_20200824T102318_0001 Mean Ses Surface (1). Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T112518_0001 Mean Ses Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T112518_0001 Mean Ses Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T1125748_0001 Mean Ses Surface (1). Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T1135748_0001 Mean Ses Surface (1). Mean Dynamic Topography height (colution 1) and th	CS_OFFL_SIR_GOPN_2_20200824T052944_20200824T053356_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	Inere is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Tota Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea Tide for one or more records
CS_OFFL_SIR_GOPN_2_20000824T083402_0000824T08408_C001 Their electrinic Coent Tipe (control GOT) for one or more records CS_OFFL_SIR_GOPN_2_20200824T093117_20200824T093438_C001 Mean Ses Surface (1). Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or with the MSS height (solution 1) are ner or with the MSS height (solution 1) are ner or writh the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or writh the MSS height (solution 1) are ner or writh the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or writh the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or writh the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) are ner or writh the MSS height (solution 1) and the Mean Dynamic Topography (solution 1)	CS_OFFL_SIR_GOPN_2_20200824T075200_20200824T075534_C001	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
CS_OFFL_SIR_GOPN_2_20200824T102169_0	CS_OFFL_SIR_GOPN_2_20200824T083900_20200824T084000_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_DFFL_SIR_GOPN_2_20200824T10259_20200824T102318_C001 Interin Unsamb Topography (1) or more records CS_OFFL_SIR_GOPN_2_20200824T11259_20200824T112011_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T112556_20200824T112019_20200824T1125748_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T125566_20200824T125748_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134120_20200824T134142_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T16563_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T165053_20200824T1	CS_OFFL_SIR_GOPN_2_20200824T093117_20200824T093438_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_DFR_SIR_GOPN_2_20200824T102319_20200824T102319_20200824T102319_20200824T112001_0001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T1120119_20200824T120229_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T125556_20200824T125748_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T125748_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134144_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134144_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T161514_20200824T160753_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T1615505_20200824T165633_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T1615505_20200824T165633_C001 Mean Dynamic Topography (1) There is an error	CS_OFFL_SIR_GOPN_2_20200824T093950_20200824T094115_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_2020082411160503_20200824111201_C001 Intern Unmanic Topography (1) or more records CS_OFFL_SIR_GOPN_2_202008241125556_202008241125748_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_202008241125556_202008241125748_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_202008241133925_202008241134120_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT) CS_OFFL_SIR_GOPN_2_202008241134120_202008241134120_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_202008241151514_202008241161763_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mass Dright (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_202008241161763_2000 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_2020082411616163_020008241161763_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202008241166503_20200824116	CS_OFFL_SIR_GOPN_2_20200824T102159_20200824T102318_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T125556_20200824T125748_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T125556_20200824T125748_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) core or more records CS_OFFL_SIR_GOPN_2_20200824T133925_20200824T134120_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) is Grone or more records CS_OFFL_SIR_GOPN_2_20200824T151514_20200824T152026_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) or one or more records CS_OFFL_SIR_GOPN_2_20200824T1615154_20200824T152026_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) core or more records CS_OFFL_SIR_GOPN_2_20200824T1615154_20200824T160753_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) in or more records CS_OFFL_SIR_GOPN_2_20200824T161505_20200824T161718_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T16505_20200824T165633_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200824T165653_20200824T165649_C001 Mean Dynamic Topography (1) There is an eror with the Mean Dynamic Topography (solution	CS_OFFL_SIR_GOPN_2_20200824T111853_20200824T112001_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_202008241125036_202008241125748_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T133925_20200824T134120_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) in the Mean Dynamic Topography (solution 1) in the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134144_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T151514_20200824T152026_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T161514_20200824T160753_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T161503_20200824T161718_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165633_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165633_C001	CS_OFFL_SIR_GOPN_2_20200824T120119_20200824T120229_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134144_C001 Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (solution 1: GOT) for one or more records CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134144_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T151514_20200824T152026_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T160503_20200824T160753_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T161415_20200824T161718_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165633_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165649_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records	CS_OFFL_SIR_GOPN_2_20200824T125556_20200824T125748_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134124_2001 Topography (1) Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T151514_20200824T152026_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) if or more records CS_OFFL_SIR_GOPN_2_20200824T160503_20200824T160753_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) if or more records CS_OFFL_SIR_GOPN_2_20200824T161415_20200824T161718_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) if or more records CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001 Mean Dynamic Topography (1) There is an error with the Mesn Dynamic Topography (solution 1) if or more records CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T1656449_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184501_20200824T184501_2020824T184502_C00	CS_OFFL_SIR_GOPN_2_20200824T133925_20200824T134120_C001		There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T181514_20200624T182026_C001 Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (solution 1: GOT) for one or more records CS_OFFL_SIR_GOPN_2_20200824T160503_20200824T160753_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T161415_20200824T161718_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_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 (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165633_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165849_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for or more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) for or more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) for or more records CS_	CS_OFFL_SIR_GOPN_2_20200824T134120_20200824T134144_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T160535_20200824T160735_C001 Integration of more records CS_OFFL_SIR_GOPN_2_20200824T161415_20200824T161718_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165849_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165849_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T185842_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184630_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records	CS_OFFL_SIR_GOPN_2_20200824T151514_20200824T152026_C001		There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T161415_20200824T161718_C001 Mean Dynamic 10pography (1) or more records CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GO) 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 (FES) and the Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165849_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) for more records CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184630_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20200824T160503_20200824T160753_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001 Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T165503_20200824T165633_C001 Mean Dynamic Topography (1) Total Geocentric Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165849_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1), Total Geocentric Ocean Tide CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184630_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1), Total Geocentric Ocean Tide (GOT)	CS_OFFL_SIR_GOPN_2_20200824T161415_20200824T161718_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_202008241183023_202008241183542_C001 Total Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (GOT) for one or more records CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_C001 Total Geocentric Ocean Tide (GOT) for one or more records CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184630_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184630_C001	CS_OFFL_SIR_GOPN_2_20200824T165505_20200824T165633_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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
CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184630_C001 Total Geocentric Ocean Tide (GOT) GOT) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for the solution of the term of	CS_OFFL_SIR_GOPN_2_20200824T165633_20200824T165849_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
	CS_OFFL_SIR_GOPN_2_20200824T183023_20200824T183542_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
or more records	CS_OFFL_SIR_GOPN_2_20200824T184501_20200824T184630_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

		There is an error with the Mean Dynamic Topography (solution 1) for one
CS_OFFL_SIR_GOPN_2_20200824T210407_20200824T210532_C001	Mean Dynamic Topography (1)	or more records
CS_OFFL_SIR_GOPN_2_20200824T211050_20200824T211357_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T224352_20200824T224649_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T224951_20200824T225329_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200824T234524_20200824T234608_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_20200824T002542_20200824T003000_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_20200824T003000_20200824T003111_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_20200824T020329_20200824T020702_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_20200824T020702_20200824T021015_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_20200824T034313_20200824T034933_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_20200824T052456_20200824T052944_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_20200824T084243_20200824T085039_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_20200824T102318_20200824T103112_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_20200824T120229_20200824T120935_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_20200824T131713_20200824T131927_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20200824T134144_20200824T134914_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_20200824T152026_20200824T152741_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20200824T165849_20200824T170740_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_20200824T183542_20200824T184320_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_20200824T201514_20200824T202140_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_20200824T202140_20200824T202317_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_20200824T215319_20200824T220040_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_20200824T220040_20200824T220221_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_20200824T233454_20200824T233938_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_20200824T233938_20200824T234100_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200824T015605_20200824T020329_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20200824T021412_20200824T023218_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20200824T130423_20200824T131713_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20200824T134914_20200824T135517_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.

92	

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200823T234806_20200824T000305_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_20200824T000424_20200824T000514_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_20200824T000920_20200824T002352_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_20200824T003550_20200824T005417_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_20200824T005538_20200824T010932_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_20200824T011732_20200824T011932_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_20200824T012040_20200824T012434_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_20200824T012701_20200824T014150_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_20200824T014351_20200824T015314_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_20200824T021125_20200824T021236_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_20200824T021412_20200824T023218_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_20200824T024825_20200824T025035_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_20200824T025539_20200824T030337_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_20200824T030640_20200824T032058_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_20200824T035524_20200824T043038_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_20200824T043647_20200824T044225_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_20200824T044657_20200824T051013_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_20200824T053356_20200824T053439_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_20200824T054408_20200824T060930_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_20200824T061623_20200824T062058_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_20200824T062542_20200824T065214_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_20200824T065634_20200824T070330_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_20200824T071605_20200824T074714_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_20200824T075534_20200824T080107_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_20200824T080447_20200824T080853_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_20200824T084000_20200824T084227_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_20200824T084236_20200824T084243_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_20200824T085447_20200824T092735_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_20200824T093438_20200824T093950_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_20200824T094525_20200824T100131_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_20200824T101928_20200824T102027_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_20200824T103112_20200824T105409_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_20200824T105519_20200824T110619_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_20200824T112356_20200824T114953_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_20200824T115009_20200824T115742_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_20200824T115842_20200824T120119_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_20200824T120935_20200824T122415_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_20200824T123048_20200824T124553_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_20200824T124820_20200824T125338_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_20200824T125356_20200824T125556_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_20200824T130423_20200824T131713_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_20200824T131927_20200824T133724_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_20200824T135849_20200824T140917_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_20200824T141056_20200824T142449_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_20200824T142746_20200824T143250_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_20200824T143314_20200824T143429_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_20200824T144142_20200824T144218_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_20200824T145034_20200824T145308_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_20200824T150028_20200824T150306_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_20200824T150428_20200824T151139_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_20200824T151301_20200824T151514_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_GOPM_2_20200824T154224_20200824T154530_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_20200824T154726_20200824T160330_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_20200824T160753_20200824T161207_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_20200824T161948_20200824T164426_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_20200824T171856_20200824T174245_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_20200824T174558_20200824T175122_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_20200824T175128_20200824T175453_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_20200824T175836_20200824T183023_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_20200824T184437_20200824T184501_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_20200824T184630_20200824T185302_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_20200824T185351_20200824T185542_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_20200824T185544_20200824T191634_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_20200824T191743_20200824T192204_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_20200824T192554_20200824T193401_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_20200824T193914_20200824T201125_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_20200824T202317_20200824T202538_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_20200824T202554_20200824T202644_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_20200824T204451_20200824T205213_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_20200824T205456_20200824T205950_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_20200824T210532_20200824T211050_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_20200824T211755_20200824T213900_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_20200824T214145_20200824T215318_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_20200824T220240_20200824T220720_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_20200824T222311_20200824T222755_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_20200824T222942_20200824T223951_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_20200824T224649_20200824T224951_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_GOPM_2_20200824T225715_20200824T232305_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_20200824T232445_20200824T233332_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_20200824T234608_20200824T235305_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_20200824T235319_20200825T001730_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_20200824T084227_20200824T084236_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_20200824T124639_20200824T124820_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_20200824T144722_20200824T145034_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_20200824T151514_20200824T152026_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_20200824T032837_20200824T032913_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_20200824T044448_20200824T044657_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_20200824T122415_20200824T122856_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_20200824T133724_20200824T133925_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_20200824T140917_20200824T141056_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_20200824T150005_20200824T150028_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_20200824T211357_20200824T211755_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

Product	Test Failed	Description
	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_20200824T003111_20200824T003531_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.
	0 1	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200824T015314_20200824T015605_C001	o i	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200824T021015_20200824T021125_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_20200824T021236_20200824T021412_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_20200824T025224_20200824T025539_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_20200824T030337_20200824T030525_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_20200824T033514_20200824T033517_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_20200824T034933_20200824T035113_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_20200824T035119_20200824T035524_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_20200824T043224_20200824T043413_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_20200824T044225_20200824T044448_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_20200824T051013_20200824T051044_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_20200824T052308_20200824T052327_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_20200824T052944_20200824T053356_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_20200824T053729_20200824T054147_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_20200824T062217_20200824T062340_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_20200824T075200_20200824T075534_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_20200824T080107_20200824T080223_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_20200824T081908_20200824T082056_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_20200824T083021_20200824T083206_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_20200824T083900_20200824T084000_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_20200824T093117_20200824T093438_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_20200824T100131_20200824T100449_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_20200824T111853_20200824T112001_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_20200824T120119_20200824T120229_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_20200824T124639_20200824T124820_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_20200824T125556_20200824T125748_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_20200824T135517_20200824T135849_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_20200824T142559_20200824T142746_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_20200824T144236_20200824T144309_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_0FFL_SIR_GOPN_2_20200824T145308_20200824T145842_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_0FFL_SIR_GOPN_2_20200824T151514_20200824T152026_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_20200824T153650_20200824T153952_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_20200824T160503_20200824T160753_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_20200824T161415_20200824T161718_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_20200824T165301_20200824T165423_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_20200824T165505_20200824T165633_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_20200824T165633_20200824T165849_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_20200824T183023_20200824T183542_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_20200824T184501_20200824T184630_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_20200824T192430_20200824T192554_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_20200824T201125_20200824T201257_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_20200824T201341_20200824T201514_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_20200824T202538_20200824T202554_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_20200824T221939_20200824T222311_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_20200824T224951_20200824T225329_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_20200824T234524_20200824T234608_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_20200824T010932_20200824T011456_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_20200824T012613_20200824T012701_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_20200824T032058_20200824T032502_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_20200824T032502_20200824T032643_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_20200824T032647_20200824T032833_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_20200824T043038_20200824T043224_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_20200824T052049_20200824T052308_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_20200824T060930_20200824T061154_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_20200824T062340_20200824T062542_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_20200824T074714_20200824T075200_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_20200824T080223_20200824T080447_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been out for one or more record.
CS_OFFL_SIR_GOPR_2_20200824T082942_20200824T083021_C001	PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	set for one or more records. The Ocean Altimeter Range, SSHA, SWH 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_20200824T083547_20200824T083855_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_20200824T084243_20200824T085039_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_20200824T092735_20200824T093117_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_20200824T101157_20200824T101505_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_20200824T102027_20200824T102159_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_20200824T102318_20200824T103112_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_20200824T112001_20200824T112356_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_20200824T120229_20200824T120935_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_20200824T124553_20200824T124639_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_20200824T125748_20200824T130423_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_20200824T140917_20200824T141056_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_20200824T144121_20200824T144142_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_20200824T152026_20200824T152741_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_20200824T153316_20200824T153333_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_20200824T154122_20200824T154224_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_20200824T160330_20200824T160503_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_20200824T165849_20200824T170740_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_20200824T174245_20200824T174444_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_20200824T175612_20200824T175836_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_20200824T183542_20200824T184320_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_20200824T192204_20200824T192430_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_20200824T201257_20200824T201341_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_20200824T201514_20200824T202140_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_20200824T202644_20200824T202715_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_20200824T205213_20200824T205456_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_20200824T211357_20200824T211755_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_20200824T215319_20200824T220040_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_20200824T223951_20200824T224352_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_20200824T225329_20200824T225715_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_20200824T235305_20200824T235319_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.				
L2 Quality Flags (1 Hz & 1Hz PLRM)						
Currently, there are several common flags raised in the Level 2 products,	which are summarised below.					
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for p	products over sea ice, which is to be expected	L				
Number of products with errors: 196						
5.8 L2 Ocean Retracking Quality Check						
L2 Retracking Flags (20Hz)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measu	urement 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	d and sea ice, but this is to be expected. The	number of products with this error flag set is given below.				
Number of products with errors: 62						
L2 Retracking Flags (20Hz, PLRM)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM	I measurement record. The bit value of this fla	ag 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: 141						
6. GOP L2	2 Pole-to-Pole Data Quality	/ Check				
6.1 P2P Product Format Check						
Each product, retrieved and unpacked from the science server, is checked to er	nsure it consists of both an XML header file (I	HDR) and a NetCDE product file (nc)				
Number of products with errors: 0						
	2 P2P Product Hoador Analysis					
6.2 P2P Product Header Analysis						
For all products, a series of pre-defined checks are performed on the MPH and Number of products with errors: 0	SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.				
6.3 P2P Auxiliary Data File Usage Check						
	determined from the second stars to the station	Helter of Annulliant Data Eller in comment				
Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0	-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.				
6.4 P2P Auxiliary Correction Error Check						
For all products, the auxiliary corrections within the Geophysical Group are che	cked for the default error value (32767).					
Currently, there are some common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from		to surface type. All common flags are summarised in the list below,				
> ECMWF Meteo Corrections: Currently the following corrections are not com Correction and the U-Wind and V-Wind components of the ECMWF model wind not reported in the table below.						
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for p	products over sea ice, but this is to be expect	ed.				
> Altimetric Wind Speed Error: The error value is currently set for products ov	ver land and sea ice, but this is to be expected	J.				
Number of products with errors: 29						
Product	Test Failed	Description				
CS_OFFL_SIR_GOP_2_20200823T233950_20200824T002925_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_220200824T002925_20200824T011904_C001	Maria David (4) Maria David	There is an error with the MSS height (solution 1) and the Mean Dynamic				
	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records				
CS_OFFL_SIR_GOP_220200824T011904_20200824T020839_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide				
CS_OFFL_SIR_GOP_220200824T011904_20200824T020839_C001 CS_OFFL_SIR_GOP_220200824T020839_20200824T025819_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 There is an error with the MSS height (solution 1) and the Mean Dynamic				

Mean Sea Surface (1), Mean Dynamic Topography (1)

CS_OFFL_SIR_GOP_2__20200824T025819_20200824T034754_C001

There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_2_20200824T034754_20200824T043734_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_20200824T043734_20200824T052709_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_20200824T052709_20200824T061649_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) Non-Fauilibrium Long Perioc	Increase an error with the MSS height (solution 1) and the Mean Lynamic 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_20200824T070624_20200824T075603_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_20200824T075603_20200824T084538_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_20200824T084538_20200824T093518_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_20200824T093518_20200824T102453_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_220200824T102453_20200824T111432_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_20200824T111432_20200824T120408_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_20200824T120408_20200824T125347_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_20200824T125347_20200824T134322_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_20200824T134322_20200824T143302_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_20200824T143302_20200824T152237_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_20200824T152237_20200824T161217_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_20200824T161217_20200824T170152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc 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_20200824T170152_20200824T175131_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_20200824T175131_20200824T184106_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_20200824T184106_20200824T193046_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_20200824T193046_20200824T202021_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_20200824T202021_20200824T211001_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_20200824T211001_20200824T215936_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_20200824T215936_20200824T224915_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_20200824T224915_20200824T233850_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_20200824T233850_20200825T002830_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

6.5 P2P Measurement Confidence Data Check

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

4

30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20200824T011904_20200824T020839_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20200824T020839_20200824T025819_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20200824T125347_20200824T134322_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220200824T134322_20200824T143302_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of	products with errors:
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P2P Quality Flags (20Hz PLRM)

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

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.

29

30

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.

0

Number of products with errors:

7. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	147	147	3	144	0
SIR_GOPR1B	100	100	0	100	0
SIR_GOPN1B	106	106	3	103	0
SIR_GOPM_2	147	147	94	53	0
SIR_GOPR_2	100	100	28	72	0
SIR_GOPN_2	106	106	40	66	0
SIR_GOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

		T		nber of occurrences of e			
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	DRBSZOPOEPNCDF
SIR_GOPM1B	144	0	0	0	0	0	0
SIR_GOPM_2	0	42	45	1	42	0	34
SIR_GOPN1B	102	0	0	0	0	0	0
SIR_GOPN_2	0	9	32	7	27	30	19
SIR_GOPR1B	99	0	0	0	0	0	0
SIR_GOPR_2	0	31	40	2	38	33	23
Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF				RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	36	0	0	0	0	26
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	0	22	0	35	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	1	0	43	0	46	0	0
Dreduct Turns	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
Product Type	0	0	0	0	0	0	0
SIR_GOPM1B	0	0	3	25	0	6	37
SIR_GOPM_2	· ·	0	0	0	0		0
SIR_GOPN1B	0	26	21	51		0 27	29
SIR_GOPN_2	· ·	0			56		
SIR_GOPR1B	0		0	0	0	0	0
SIR_GOPR_2	41	0	2	63	51	18	34
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR GOPM1B	0	0	0	0	0	0	
SIR GOPM 2	0	7	0	0	0	0	
SIR GOPN1B	0	0	0	0	47	2	
SIR GOPN 2	29	16	0	3	0	0	
SIR GOPR1B	0	0	1	0	100	6	
SIR GOPR 2	42	3	0	0	0	0	
	72	0	0	0	0	0	
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_GOP_2_	11	29	29	9	29	19	29
	r		1	1			
Product Type	RNELPOTONCDF		CDIRPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNC
SIR_GOP_2_	1	20	29	22	21	29	19
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCD	FRSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR GOP 2	24	29	20	21	29		
		·	- I	+			
st Description Key: breviation	Test name			Details			
previation	BurstCounterStep20HzNet	CDE			e one higher with regard to t	he previous burst counter	
CUNCDE		501		The burst counter should b			
	MissingValueIntOceanExclu	udingPolarFD2NetCDF		The value should not be a '	missing value' for surface ty	pe 0 only for latitudes betwee	en -70 and 70 degrees
IOEPFDNCDF		-				pe 0 only for latitudes betwee pe 0 only for latitudes betwee	-
10EPFDNCDF	MissingValueIntOceanExclu	udingPolarNetCDF		The value should not be a '		pe 0 only for latitudes betwee	-
VIOEPFDNCDF VIOEPNCDF VIONCDF	MissingValueIntOceanExclu MissingValueIntOceanExclu MissingValueIntOceanNetC	udingPolarNetCDF	rED2NetCDE	The value should not be a '	'missing value' for surface ty	pe 0 only for latitudes betwee	en -70 and 70 degrees
CSHNCDF VIOEPFDNCDF VIOEPNCDF VIONCDF 3SZOPOEPFDNCDF	MissingValueIntOceanExclu MissingValueIntOceanExclu MissingValueIntOceanNetC	udingPolarNetCDF	rFD2NetCDF	The value should not be a '	missing value' for surface ty missing value' for surface ty o should be between 700 an	pe 0 only for latitudes betwee	en -70 and 70 degrees

 RBSZOPOEPFDPLRM NCDF
 RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF
 The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

 RBSZOPOEPNCDF
 RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF
 The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: