

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

<u>16/02/2020</u>

		Check	L1 & L2	P2P
Report Production:	18-Mar-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Dresser	Cruce Cat Ocean Dreasons	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

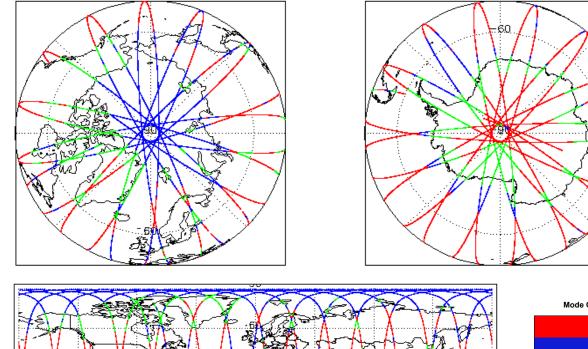
1. Overview

#### Mission / Instrument News 15-Feb-2020 None

16-Feb-2020 None

17-Feb-2020 Nothing planned

## 2. Global Coverage







# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

-13

SIRAL - A

## 4. GOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

30

60

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 i	nconsistencies and/or errors raised by the ground-segment processing chain.			
		because the I1b_processing_quality_hr field is not correctly configured in the OSAR and			
Number of products with errors: 0					
4.3 L1B Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-	-determined baseline and also	o 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	I. The bit value of this flag indi	cates any problems 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 measurem	ent record. The bit value of th	is flag indicates any problems when set.			
Attitude Correction Missing: This flag is currently set in error for GOPR produ	ucts due to a configuration iss	ue. This is being investigated and will be updated in the next SW update.			
Number of products with errors: 0					
4.6 L1B Waveform Group Data Check					
•	The bit velue of this flow indi				
CryoSat L1B data includes a waveform data flag for each measurement record.	-	cates any problems when set.			
Loss of Echo Flag: This flag is currently set for some products over land, but t Number of products with errors: 17	This is to be expected.				
	Test Failed	Description			
CS_OFFL_SIR_GOPM1B_20200216T003604_20200216T004314_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20200216T225100_20200216T230648_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T004646_20200216T005159_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T014602_20200216T014853_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T060526_20200216T060713_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T091321_20200216T091517_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T105106_20200216T105225_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T172258_20200216T172355_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T173333_20200216T173452_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T203912_20200216T204324_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20200216T235546_20200216T235843_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20200216T001455_20200216T001548_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20200216T054642_20200216T055312_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20200216T103422_20200216T103606_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20200216T154025_20200216T155024_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20200216T183109_20200216T183728_C001 CS_OFFL_SIR_GOPR1B_20200216T205223_20200216T205408_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
5. GC	P Level 2 Data C	Quality Check			
5.1 L2 Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to en	nsure it consists of both an XI	VL header file (.HDR) and a binary product file (.DBL).			
Number of products with errors: 0					
5.2 L2 Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any 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			
Number of products with errors: 0					
5.4 L2 Auxiliary Correction Error Check					
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).					
Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.					
> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.					
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.					
<ul> <li>&gt; Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.</li> </ul>					

Display Di	Product	Test Failed	Description
City, Str. Don's J., 2000 House and an experimental strategy of the strategy	CS_OFFL_SIR_GOPM_2_20200216T023917_20200216T024020_C001		
Call, Direct, Sand, Call D., Callos D. B. (2002)         Real Dynamic Topparty (v)         Intermediated           Call, Direct, Sand, Colm, Z., 20020011010002, 2002011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 2000011010002, 20000110100000110100, 200001101000000110100, 200001101000000110100, 200001101000000110100, 200001101000000110100, 200001101000000110100, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 200001101000, 20000011010000, 200000110100000, 20000000000	CS_OFFL_SIR_GOPN_2_20200216T004646_20200216T005159_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean
Carl Dar Could of Council Interact Journal Interaction         March Systems Tage and Systems	CS_OFFL_SIR_GOPN_2_20200216T013639_20200216T013936_C001	Mean Dynamic Topography (1)	
Big Start, Space Open, 2, 200201910000000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20200216T014602_20200216T014853_C001	Mean Dynamic Topography (1)	
CPUT_SPL_COMP_COMP_CONDENTIONSUM_CONDUCTION         Name System: Transport ()         The result of the Name System: Transport ()           CR_OPE_UB_COM_C_2000011010402_2000011010402_0001         Name System: Transport ()         The result of the Name System: Transport ()           CR_OPE_UB_COM_C_2000011010402_2000011010402_0001         Name System: Transport ()         The result of the Name System: Transport ()           CR_OPE_UB_COM_C_2000011010402_2000011010400_0001         Name Sos Comp ()         Name Sos Comp ()         The result of the Name System: Transport ()           CR_OPE_UB_COM_C_2000011010402_2000011010400_0001         Name Sos Comp ()	CS_OFFL_SIR_GOPN_2_20200216T022644_20200216T022932_C001	Mean Dynamic Topography (1)	
Corr L, Sing, Corr L,	CS_OFFL_SIR_GOPN_2_20200216T022932_20200216T023021_C001	Mean Dynamic Topography (1)	
Carl, Link, Corrul, Sin, Corrul, S	CS_OFFL_SIR_GOPN_2_20200216T040214_20200216T040713_C001	Mean Dynamic Topography (1)	
Displant         Traggraphy (i)         Traggraphy (i)         Traggraphy (i)         Traggraphy (i)           C3, 044, SR, 0044, 2, 20002161106201, 2000216106201, 00001         Mask Sta Staffact (), Mask Dyants         Traggraphy (i)         Traggraphy (i)           C3, 044, SR, 0044, 2, 2000216106211, 2000216106201, 00001         Mask Sta Staffact (), Mask Dyants         Traggraphy (i)         Traggraphy (i)           C4, 044, SR, 0044, 2, 2000216106212, 2000216110625, 0001         Mask Sta Staffact (), Mask Dyants         Traggraphy (i)         Traggraphy (i)           C5, 044, 2, 2000216110510, 2000216110525, 0001         Mask Sta Staffact (), Mask Dyants         Traggraphy (i)         Traggraphy (i)           C6, 044, 2, 2000216110510, 20002161105172, 0001         Mask Sta Staffact (), Mask Dyants         Traggraphy (i)         Traggraphy (i)         Traggraphy (i)           C6, 044, 2, 20002161103264, 200021611103264, 200021611103264, 200021611103264, 20002161110	CS_OFFL_SIR_GOPN_2_20200216T041642_20200216T041802_C001	Mean Dynamic Topography (1)	, , , , , , , , , , , , , , , , , , , ,
Construction         Trapagaphy (1)         Trapagaphy (1)         Trapagaphy (1)           Call, OPFL_SHP_GOME_2_0000011100101_200001101100102_00001         Mont Sociation (1), Main Dynamic         Trapagaphy (1)         Thesis is an one with the MSS height (children 1) for one means models.           Call, OPFL_SHP_GOME_2_0000011100100_200001101100020_00001         Mean See Station (1), Main Dynamic         Trapagaphy (1)         Them is an one with the MSS height (children 1) for one means models.           Call, OPFL_SHP_GOME_2_000001101100100_200001101100020_000011         Mean See Station (1), Mean Dynamic         Trapagaphy (1)         Them is an one with the MSS height (children 1) and the Mean Dynamic           Call, OPFL_SHP_GOME_2_00000110110000_200001101100002_00000110110000_20000110110000_20000110110000         Mean See Station (1), Mean Dynamic         Trapagaphy (1)         Them is an one with the MSS height (children 1) and the Mean Dynamic           Call, OFFL_SHP_GOME_2_000001011102046_0000201011102046_0001         Mean See Station (1), Mean Dynamic         Trapagaphy (1)         Them is an one with the MSS height (children 1) and the Mean Dynamic Trapagaphy (1)           Call, OFFL_SHP_GOME_2_00000101110204_000020101110204_000020101110204_000001101101000         Mean See Station (1), Mean Dynamic         Trapagaphy (1)         Them is an one with the MSS height (children 1) and the Mean Dynamic Trapagaphy (1)           Call, OFFL_SHP_GOME_2_00000101110204_0000011011010000         Mean See Station (1), Mean Dynamic         Trapagaphy (1)         Them is an onero with the MSS heigh	CS_OFFL_SIR_GOPN_2_20200216T064220_20200216T064525_C001		
CS, DFL, SR, COPL, 2, 2020216106321, 2020216106325, 20202       Toography (1)       Toography (1)       Toography (1)         CS, DFL, SR, COPL, 2, 2020216106325, 2020216110525, 2020216110525, 2020216110525, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 2020216110512, 20202161110512, 20202161110514, 20201261110514, 202012	CS_OFFL_SIR_GOPN_2_20200216T081523_20200216T081829_C001		
CPU_FIL_SUC_DUPU_SUC_DUPU_SUC_DUPU_SUC_DUPU         Topography (c)         Topography (c)         Topography (c)           C2_OFFL_SIR_GOPN_2_2020216T10526_2020216T10526_C001         Main Ses Sufface (1), Main Dynamic Topography (1)         The is an error with the MSS height (colubon 1) and the Msin Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_2020216T10526_20202016T10526_C001         Main Ses Sufface (1), Main Dynamic Topography (1)         There is an error with the MSS height (colubon 1) and the Msin Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_20200216T10526_C001         Main Ses Sufface (1), Main Dynamic Topography (1)         There is an error with the MSS height (colubon 1) for one or more records           C3_OFFL_SIR_GOPN_2_20200216T10526_202020216T105264_C001         Mean Dynamic Topography (1)         There is an error with the Msin Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_20200216T105264_C001         Mean Dynamic Topography (1)         There is an error with the Msin Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_20200216T105264_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (colubon 1) for one or more records           C3_OFFL_SIR_GOPN_2_20200216T10526_20202016T105264_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (colubon 1) and the Msan Dynamic Topography (1)           C3_OFFL_SIR_GOPN_2_20200216T105265_C001         Mean Des Sufface (1) Mean Dynamic Topography (1)         There is an error with the MSS height (colubon 1) and the Msan Dynamin Topography (1)           C	CS_OFFL_SIR_GOPN_2_20200216T082121_20200216T082501_C001		
02.0.0FH_SR_GOPN_2_2020216T10502_2020216T10522_0001         Toography (1)         Toography (1)         Toography (1)           02.0FH_SR_GOPN_2_2020216T10505_020216T10575_0001         Mem Sea Sufface (1). Mem Dynamic Toography (1)         There is an error with the MSS hepti (oblicits) 1 and the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T103165_0001         Mem Sea Sufface (1). Mem Dynamic Toography (1)         There is an error with the MSS hepti (oblicits) 1 and the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T103165_0001         Mem Dynamic Toography (1)         There is an error with the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T103165_0001         Mem Dynamic Toography (1)         There is an error with the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T103165_0001         Mem Dynamic Toography (1)         There is an error with the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T10316_00001         Mem Dynamic Toography (1)         There is an error with the MSS heptit (oblicits) 1 and the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T10304_00001         Mem Sea Sufface (1). Mem Dynamic Toography (1)         There is an error with the MSS heptit (oblicits) 1 and the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T10304_00001         Mem Sea Sufface (1). Mem Dynamic Toography (1)         There is an error with the MSS heptit (oblicits) 1 and the Mem Dynamic Toography (1)           03.0FH_SR_GOPN_2_20200216T103254_02020216T103555_0001         Mem Sea Sufface (1). M	CS_OFFL_SIR_GOPN_2_20200216T095559_20200216T095833_C001	Topography (1)	Topography height (solution 1) for one or more records
Column 2, 20000216113082, 20000216113242, 20000216113244, C001         Trapography (1)         Trapography (2)         Trapography (3)           CS, OFFL, SIR, GOPN, 2, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 20200216113120, 202002161130244, 20200216113024, 20200216113024, 20200216113024, 20200216	CS_OFFL_SIR_GOPN_2_20200216T105106_20200216T105225_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide height
Construction         Topography (1)         Topography height (colution 1) for one more records           CS_OFFL_SIR_GOPN_2_20200216T13120_20200216T131466_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (colution 1) for one more records           CS_OFFL_SIR_GOPN_2_20200216T132264_20200216T132564_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (colution 1) for one more records           CS_OFFL_SIR_GOPN_2_20200216T132264_20200216T134584_C001         Mean Ses Surface (1) Mean Dynamic Topography height (colution 1) for one more records           CS_OFFL_SIR_GOPN_2_20200216T130182_20200216T136362_C001         Mean Ses Surface (1) Mean Dynamic Topography height (colution 1) for one more records           CS_OFFL_SIR_GOPN_2_20200216T163224_20200216T163628_C001         Mean Ses Surface (1) Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography height (colution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200216T163224_20200216T163628_C001         Mean Ses Surface (1) Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography height (colution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200216T163224_20200216T163628_C001         Mean Ses Surface (1) Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography heig	CS_OFFL_SIR_GOPN_2_20200216T113056_20200216T113712_C001		
CS_OFF_SIR_GOPN_2_2020216T182348_2020216T182548_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records more records and the mean Dynamic Topography (2) mean Dynamic Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (3) Mean Sea Surface (1), Mean Dynamic Topography (a) there is an error with the MSS height (solution 1) and the Mean Dynamic Topography (3) Mean Sea Surface (1), Mean Dynamic Topography (3) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (3) Mean Sea Surface (1), Mean Dynamic Topography (3) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Tell Geocentric Ocean Tob (7) Near Sea Surface (1), Mean Dynamic Topography (1) Tell Geocentric Ocean Tob (7) Near Sea Surface (1), Mean Dynamic Topography (1) Tell Geocentric Ocean Tob (7) Near Sea Surface (1), Mean Dynamic Topography (1) Tell Geocentric Ocean Tob (7) Near Sea Surface (1), Mean Dynamic Topography (1) Tell Geocentric Ocean Tob (7) Near Sea Surface (1), Mean Dynamic Topography (1) Tell Geocentric Ocean Tob (7) Near Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) Z0200216T182545_2020216T182545_C001 Mean Dynamic Topography (1) There is an error with the MSD height (solution 1) for one or more records (2) Surface (2) Mean Dynamic Topography (2) Z0200216T182045_20200216T182156_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) Surface (1), Mean Dynamic Topography (2) Surface (2), Mean Dynamic Topog	CS_OFFL_SIR_GOPN_2_20200216T123040_20200216T123248_C001		
Component         Comparison         The set is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200216T140052_20200216T141438_C001         Mean See Surface (1), Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200216T150136_20200216T150404_C001         Mean See Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200216T162045_20200216T162158_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solutio	CS_OFFL_SIR_GOPN_2_20200216T131320_20200216T131455_C001	Mean Dynamic Topography (1)	
Construction         Topography (1)         Topography (1)         Topography (1)         Topography (1)           CS_OFFL_SIR_GOPN_2_2020216T150186_02020216T15044_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200216T180245_2020216T100168_C001         Mean Sea Surface (1). Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200216T203739_20200216T203739_20200216T203739_20200216T203739_20200216T203739_20200216T203739_20200216T203739_20200216T203739_2020	CS_OFFL_SIR_GOPN_2_20200216T132348_20200216T132548_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_GOPN_2_20200216116324_20200216116326_0001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_202002161163234_202002161163826_0001       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_202002161172255_0001       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_202002161181218_0001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_202002161181218_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_202002161181218_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_202002161181268_0001       Mean Sa Surface (1). Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_202002161194941_202002161198404_0001       Mean Sa Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_2020021611920381_0001       Mean Sa Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_202002161203739_202002161203831_0001       Mean Sa Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and	CS_OFFL_SIR_GOPN_2_20200216T140952_20200216T141438_C001		
CS_OFFL_SIR_GOPN_2_20200216T163234_20200216T163236_C001       Interest is an error with the MSS height (solution 1) and the Mean Dynamic Coern Tice (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES) and the Mean Dynamic Topography (1)       Interest is an error with the MSS height (solution 1) and the Mean Dynamic Coern Tice (FES) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200216T18128_20200216T172355_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_20200216T181218_20200216T181531_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_20200216T182045_20200216T18256_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_20200216T182045_20200216T182046_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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_20200216T182948_20200216T202036_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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_20200216T203739_20200216T203831_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography heigh	CS_OFFL_SIR_GOPN_2_20200216T150136_20200216T150404_C001	Topography (1)	
CS_OFFL_SIR_GOPN_2_20200216T181246_20200216T181531_C001       Mean Dynamic Topography (1)       or more records         CS_OFFL_SIR_GOPN_2_20200216T181245_20200216T181531_C001       Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200216T182045_20200216T182158_C001       Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T195404_C001       Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T203739_20200216T203831_C001       Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T203739_20200216T203831_C001       Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) and the 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_20200216T203739_20200216T203831_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200216T203791_20200216T203831_C001       Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography (1) (Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography (1) (Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1) and the Mean D	CS_OFFL_SIR_GOPN_2_20200216T163234_20200216T163626_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean
CS_OFFL_SIR_GOPN_2_20200216T18154_0200216T18154_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T182045_20200216T182158_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T194941_20200216T195404_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T200108_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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_20200216T203739_20200216T203831_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200216T203912_20200216T20392_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T223152_20200216T223228_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)	CS_OFFL_SIR_GOPN_2_20200216T172258_20200216T172355_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_GOPN_2_20200216T194941_20200216T195404_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T200108_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_20200216T203739_20200216T203831_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_20200216T203912_20200216T203831_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_GOPN_2_20200216T213721_20200216T213909_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200216T222126_20200216T22228_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T231528_20200216T231752_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T05159_20200216T005811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more	CS_OFFL_SIR_GOPN_2_20200216T181218_20200216T181531_C001		
CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T200108_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T200108_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_20200216T203739_20200216T203831_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_20200216T213721_20200216T213909_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_20200216T222126_20200216T2213722_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T005159_20200216T231752_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_20200216T005159_20200216T005811_C001       Mean Sea Surface	CS_OFFL_SIR_GOPN_2_20200216T182045_20200216T182158_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_GOPN_2_202002161193948_202002161203739_202002161203831_C001         Topography (1)         Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_202002167203739_202002167203831_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_202002167203912_202002167203912_202002167204324_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records           CS_OFFL_SIR_GOPN_2_202002167213721_202002167213909_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1: GOT) for one or more records           CS_OFFL_SIR_GOPN_2_20200216722126_20200216722328_C001         Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_202002167231528_202002167231752_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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_202002167231528_202002167005811_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_GOPR_2_202002167005159_202002167005811_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20200216T194941_20200216T195404_C001		
CS_OFFL_SIR_GOPN_2_20200216120333_20200216120383_C001       Internet 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_20200216T203912_20200216T213909_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200216T2213721_20200216T213909_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) or one or more records         CS_OFFL_SIR_GOPN_2_20200216T222126_20200216T222228_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T2231528_20200216T231752_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T05159_20200216T05811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T011455_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_20200216T011412_20200216T011455_C001       Mean Dynamic Topog	CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T200108_C001		
CS_OFFL_SIR_GOPN_2_20200216T203912_20200216T204324_C001       Topography (1), Total Geocentric Ocean       Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T213721_20200216T213909_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_20200216T2222126_20200216T222228_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T2231528_20200216T231752_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T005159_20200216T005811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T023021_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_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_20200216T011412_20200216T011455_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_20200216T023021_2020216T023021_20200	CS_OFFL_SIR_GOPN_2_20200216T203739_20200216T203831_C001		or more records
CS_OFFL_SIR_GOPN_2_20200216T2222126_20200216T222228_C001       Mean Dynamic Topography (1)       or more records         CS_OFFL_SIR_GOPN_2_20200216T222126_20200216T222228_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20200216T231528_20200216T231752_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPN_2_20200216T0055159_20200216T005811_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPR_2_20200216T0055159_20200216T005811_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_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_20200216T011412_20200216T011455_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_20200216T023021_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T023021_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic <td>CS_OFFL_SIR_GOPN_2_20200216T203912_20200216T204324_C001</td> <td>Topography (1), Total Geocentric Ocean</td> <td>Topography height (solution 1) and the Total Geocentric Ocean Tide height</td>	CS_OFFL_SIR_GOPN_2_20200216T203912_20200216T204324_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide height
CS_OFFL_SIR_GOPN_2_202002161222126_20200216122228_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T231528_20200216T231752_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200216T005159_20200216T005811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T005159_20200216T005811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_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_20200216T011412_20200216T011455_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_20200216T011412_20200216T011455_C001       Mean Sea Surface (1), 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_20200216T011412_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic or more records	CS_OFFL_SIR_GOPN_2_20200216T213721_20200216T213909_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_GOPR_2_20200216T005159_20200216T005811_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T005159_20200216T005811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_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_20200216T011412_20200216T011455_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_20200216T011412_20200216T011455_C001       Mean Sea Surface (1), 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_20200216T222126_20200216T222228_C001		
CS_OFFL_SIR_GOPR_2_202002161005159_202002161005811_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_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_20200216T011412_20200216T011455_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOPN_2_20200216T231528_20200216T231752_C001		
CS_OFFL_SIR_GOPR_2_202002161011412_202002161011455_C001 Mean Dynamic Topography (1) or more records CS_OFFL_SIR_GOPR_2_202002161023021_202002161023917_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) or more records	CS_OFFL_SIR_GOPR_2_20200216T005159_20200216T005811_C001		
	CS_OFFL_SIR_GOPR_2_20200216T011412_20200216T011455_C001	Mean Dynamic Topography (1)	, , , , , , , , , , , , , , , , , , , ,
	CS_OFFL_SIR_GOPR_2_20200216T023021_20200216T023917_C001		

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CS_OFFL_SIR_GOPR_2_20200216T040713_20200216T041453_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_20200216T054642_20200216T055312_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_20200216T055312_20200216T055618_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_20200216T072454_20200216T073211_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_20200216T073211_20200216T073355_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_20200216T090627_20200216T091107_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_20200216T091107_20200216T091228_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_20200216T104435_20200216T104945_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_20200216T104945_20200216T105106_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_20200216T122624_20200216T122700_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20200216T122700_20200216T123039_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_20200216T140207_20200216T140224_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_20200216T140224_20200216T140952_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_20200216T154025_20200216T155024_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_20200216T171300_20200216T171437_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_20200216T172355_20200216T173145_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_20200216T190045_20200216T191450_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_20200216T204324_20200216T205050_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_20200216T222228_20200216T222758_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_20200216T222848_20200216T222944_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_20200216T235125_20200216T235227_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

#### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

## 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.

98

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200215T235921_20200216T000424_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_20200216T000431_20200216T000441_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_20200216T001255_20200216T001353_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_20200216T002052_20200216T002457_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_20200216T003128_20200216T003441_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_20200216T003604_20200216T004314_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_20200216T011455_20200216T013638_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_20200216T013936_20200216T014340_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_20200216T014402_20200216T014602_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_20200216T014947_20200216T021604_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_20200216T025153_20200216T031613_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_20200216T031728_20200216T032254_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_20200216T032300_20200216T032625_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_20200216T032856_20200216T040214_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_20200216T042722_20200216T044700_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_20200216T044919_20200216T045552_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_20200216T045728_20200216T050532_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_20200216T050800_20200216T054248_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_20200216T055618_20200216T055708_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_20200216T062601_20200216T063530_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_20200216T063704_20200216T064220_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_20200216T064745_20200216T071030_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_20200216T071316_20200216T072245_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_20200216T073439_20200216T073504_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_20200216T073546_20200216T073852_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_20200216T075351_20200216T075926_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_20200216T080113_20200216T081436_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_20200216T081829_20200216T082120_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_20200216T082724_20200216T085435_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_20200216T085614_20200216T085937_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_20200216T091734_20200216T092426_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_20200216T092439_20200216T094858_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	
CS_OFFL_SIR_GOPM_2_20200216T100249_20200216T100518_C001	Backscatter Quality	for one or more records.
CS_OFFL_SIR_GOPM_2_20200216T100657_20200216T101146_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_20200216T101237_20200216T102349_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_20200216T102352_20200216T103421_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_20200216T105225_20200216T105623_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_20200216T110146_20200216T111333_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_20200216T111557_20200216T111846_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_20200216T112219_20200216T113056_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_20200216T113713_20200216T113943_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_20200216T114008_20200216T114433_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_20200216T114613_20200216T120116_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_20200216T120256_20200216T120708_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_20200216T123948_20200216T124659_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_20200216T124822_20200216T131232_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_20200216T131455_20200216T132347_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_20200216T132554_20200216T134955_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_20200216T142736_20200216T145144_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_20200216T145711_20200216T150136_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_20200216T150425_20200216T153256_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_20200216T155844_20200216T160133_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_20200216T160149_20200216T163106_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_20200216T163626_20200216T164214_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_20200216T164339_20200216T171010_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_20200216T173452_20200216T180956_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_20200216T181532_20200216T182045_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20200216T182223_20200216T182529_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200216T182729_20200216T183109_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_20200216T183728_20200216T183910_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_20200216T185800_20200216T190044_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_20200216T191450_20200216T192337_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_20200216T192623_20200216T194844_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_20200216T195404_20200216T195532_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_20200216T195539_20200216T195947_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_20200216T200158_20200216T201453_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_20200216T201641_20200216T202358_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_20200216T202454_20200216T202900_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_20200216T203540_20200216T203645_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_20200216T203645_20200216T203739_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_20200216T205525_20200216T205904_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_20200216T210044_20200216T212736_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_20200216T212903_20200216T213430_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_20200216T213436_20200216T213443_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_20200216T214532_20200216T215800_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_20200216T215830_20200216T221543_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_20200216T223523_20200216T223556_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_20200216T223912_20200216T224856_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_0FFL_SIR_GOPM_2_20200216T225100_20200216T230647_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_20200216T230830_20200216T231327_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_20200216T231335_20200216T231341_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_20200216T231406_20200216T231527_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_20200216T232233_20200216T233323_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_20200216T233927_20200216T235049_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_20200216T002457_20200216T003005_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_20200216T024020_20200216T024143_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_20200216T054248_20200216T054416_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_20200216T091321_20200216T091517_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_20200216T091648_20200216T091734_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_20200216T230648_20200216T230830_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_20200216T090240_20200216T090242_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_20200216T111346_20200216T111546_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_20200216T140207_20200216T140224_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_20200216T182529_20200216T182729_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_20200216T205905_20200216T210044_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_20200216T213431_20200216T213436_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_20200216T222228_20200216T222758_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (20Hz PLRM)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200216T001401_20200216T001455_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_20200216T001757_20200216T002047_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_20200216T002457_20200216T003005_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_20200216T003441_20200216T003604_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_20200216T004314_20200216T004437_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH 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_20200216T004646_20200216T005159_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH 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_20200216T022435_20200216T022557_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_20200216T022644_20200216T022932_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_20200216T024621_20200216T024823_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_20200216T024929_20200216T025032_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_20200216T032625_20200216T032745_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_20200216T045604_20200216T045728_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

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Control and control and control matrices         0000 Rescuents Cashiy         and control and control and control matrices           Control and control and control matrices         0000 Rescuents Cashiy Fills         https://www.control.comtrol.co	CS_OFFL_SIR_GOPN_2_20200216T055848_20200216T060011_C001		
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Corr Lonc Outrice Carbon     Corr Lonce Carbon     The Outrice Carbon       Corr Lonce Carbon     Corr Lonce Carbon     The Outrice Carbon       Corr Lonce Carbon     Corr Lonce Carbon     The Outrice Carbon       Corr Lonce Carbon     Corr Lonce Carbon     The Outrice Carbon       Corr Lonce Carbon     Corr Lonce Carbon     The Outrice Carbon       Corr Lonce Carbon     Corr Lonce Carbon     The Outrice Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Carbon     Corr Lonce Carbon     Corr Lonce Carbon       Corr Lonce Cor Lonce Carbon     Corr Lonce Carbon	CS_OFFL_SIR_GOPN_2_20200216T064220_20200216T064525_C001		
C3, OFTL, SR, COPL, 2, 20202107161023, 20202107101020, COOL Instructional Control (Control Control Co	CS_OFFL_SIR_GOPN_2_20200216T075114_20200216T075351_C001		
CS_OFFL_SR_OOPN_2_20200216T10182_0200216T10182_00001     Imit Seakestelle Quality FLML COOL In the Quality CRAM COOL IN the Quality CRAM COOL In the Quality CRAM COOL IN the Quality CRAM COOL In the Quality CRAM COOL IN the Quality CRAM COOL IN the Quality CRAM COOL In the Quality CRAM COOL IN	CS_OFFL_SIR_GOPN_2_20200216T081523_20200216T081829_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_CEPL_SIR_COPN_2_2020121ET102569_202021ET102560_0001     COCO Almeer Range Cally PLRA. CDC COC Range and Backacater Cally PLRA. The CDC Range and Backacater Cally PLRA. CDC COC Range and Backacater Cally PLRA. The CDC Range and Backacater Cally PLRA. The	CS_OFFL_SIR_GOPN_2_20200216T091228_20200216T091318_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
000000000000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20200216T095559_20200216T095833_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_UPPL_SH_COUPL_2_ADDUD IN TUDED_2UNU         DCCG Backscatter Quality         Incrementation           CB_UPPL_SH_COUPL_2_ADDUD2 INT TUDED_2UD1         DCCG Backscatter Quality         The CCCG Range and Backscatter Quality FLBM, The CCCGG Range and Backscatter Quality FLBM, The CCCGG Range an	CS_OFFL_SIR_GOPN_2_20200216T100027_20200216T100248_C001		
0.000 PTL_SIR_DOPN_2_202002161113006_000001 (010302_0001       0COOS Backsterd Quality       more recods.         0.5. 0FTL_SIR_GOPN_2_202002161113041_00002 (01111062_0001       0COOS Backsterd Quality PLRM, Cook Cook Backsterd Quality PLRM, Cook Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more recods.         0.5. 0FFL_SIR_GOPN_2_202002161122546_202002161122524_0001       Ocean Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more recods.         0.5. 0FFL_SIR_GOPN_2_202002161122546_202002161122524_0001       Ocean Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more recods.         0.5. 0FFL_SIR_GOPN_2_202002161122546_202002161122524_0001       Ocean Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more recods.         0.5. 0FFL_SIR_GOPN_2_202002161122546_202002161122546_0001       OceoAltmeter Range, Quality PLRM, Cook Range and Backscatter Quality Flags have been set for one or more recods.         0.5. 0FFL_SIR_GOPN_2_202002161122546_202002161122546_0001       OCCOA Attreeter Range Quality PLRM, Cook Range and Backscatter Quality Flags have been set for one or more recods.         0.5. 0FFL_SIR_GOPN_2_202002161125266_00002161125266_0001       OCCOA Attreeter Range Quality PLRM, Cook Range and Backscatter Quality Flags have been set for one or more recods.         0.5. 0FFL_SIR_GOPN_2_202002161135326_0001       OCCOA Attreeter Range Quality PLRM, Cook Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20200216T100518_20200216T100652_C001		
OCCG Backscatter Quality more records.  OCCG Backscatter Quality more records.  The OCCG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20200216T12348_20200216T123248_C001  OCCG Backscatter Quality PLRM.  CS_OFFL_SIR_GOPN_2_20200216T12348_20200216T123248_C001  OCCG Attimeter Range Quality PLRM, The OCCG Range and Backscatter Quality Flags and the OCCG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20200216T12388_20200216T123948_C001 OCCG Altimeter Range Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T135020_2020216T135255_C001 OCCG Altimeter Range Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T135020_2020216T135255_C001 OCCG Altimeter Range Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T135020_2020216T135255_C001 OCCG Altimeter Range Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T13522_2020216T141438_C001 OCCG Altimeter Range Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T13522_2020216T141438_C001 OCCG Altimeter Range Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T1405852_C001 OCCG Alt	CS_OFFL_SIR_GOPN_2_20200216T103606_20200216T103812_C001		
OS_PFL_SIR_GOPN_2_20200216T12364_20200216T12864_C001         OCOB Backscater Quality         more records.           Osean Altimeter Range, SSHA, SWH, and Backscatter Quality Flags have been set for one or more records.         more records.           CS_OFFL_SIR_GOPN_2_20200216T122640_20200216T12864_C001         Ocean Altimeter Range, SSHA, SWH, and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200216T123640_20200216T123648_C001         Ocean Altimeter Range, SSHA, SWH, and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200216T123648_C001         OCOG Altimeter Range Quality PLRM, COG           Altimeter Range and Backscatter Quality         Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200216T123648_C001         OCOG Altimeter Range Quality PLRM, COG           QCOG Altimeter Range Quality PLRM, COG         The OCOG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200216T136421_20200216T13658_C001         OCOG Altimeter Range Quality PLRM, COG         The OCOG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200216T136421_20200216T13658_C001         OCOG Altimeter Range Quality PLRM, COG         The OCOG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200216T136421_20200216T136568_C001         OCOG Altimeter Range Quality PLRM, COGO Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20200216T111847_20200216T111952_C001		
CS_OFFL_SIR_GOPN_2_2020216T12264_02020216T12264_001       and Backsatter Quality PLRM, CCCO Allimeter Range and Backsatter Quality PLRM, CCCO Allimeter Range. SSHA, SWH and Backsatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_GOPN_2_2020216T123040_2020216T123648_001       CCCG Alimeter Range Quality PLRM, CCCO and Alimeter Range Quality PLRM, CCCO Backsatter Quality PLRM, The CCCO Range and Backsatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_2020216T123848_C001       CCCG Alimeter Range Quality PLRM, CCCG Backsatter Quality       The OCCGR Ange and Backsatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_2020216T138325_C001       CCCG Alimeter Range Quality PLRM, CCCG Backsatter Quality       The OCCGR Ange and Backsatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_2020216T138325_C001       CCCG Alimeter Range Quality PLRM, CCCG Backsatter Quality       The OCCGR Range and Backsatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_2020216T13942_1_20200216T14438_C001       CCCG Alimeter Range Quality PLRM, CCCG Backsatter Quality       The OCCGR Range and Backsatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_2020216T16923_2020216T169362_C001       CCCG Alimeter Range Quality PLRM, CCCG Backsatter Quality       The OCCGR Ran	CS_OFFL_SIR_GOPN_2_20200216T113944_20200216T114007_C001		
GS_OFFL_SIR_GOPN_2_20200216T123040_2020216T123248_C001       and Backscatter Quality PLRM, COCG Attimeter Range and Backscatter Quality PLRM, The OCOG Attimeter Range and Backscatter Quality Flags have been at for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T123348_20200216T123948_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T123826_20200216T123948_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, CCG G Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T135320_20200216T135325_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality FLRM, CCG G Backscatter Quality FLRM, CCG G Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T135421_20200216T135558_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality FLRM, CCG G Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T140852_20200216T141438_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T150186_20200216T150404_C001       Attimeter Range Quality PLRM, PLRM       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T16324_20200216T163626_C001       OCOG Attimeter Range Quality PLRM, PLRM       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         C	CS_OFFL_SIR_GOPN_2_20200216T122546_20200216T122624_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20200216T123362_20200216T123348_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200216T123362_20200216T123348_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality FLRM, OCOG Backscatt	CS_OFFL_SIR_GOPN_2_20200216T123040_20200216T123248_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20200216T135325_2001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200216T135325_2001       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_20200216T135421_20200216T135558_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_20200216T140952_20200216T14438_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_20200216T150136_20200216T150404_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T163234_20200216T163866_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_20200216T164214_20200216T164339_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_20200216T171814_20200216T171345_0200216T171345_0200216T171345_0200216T171345_0200216T171345_0200216T171345_0200216T171345_0200216T171345_0200216T171345_0200216T171345_0200216T1713248_C001       OCOG Altimeter Range Quality P	CS_OFFL_SIR_GOPN_2_20200216T123348_20200216T123618_C001		5 5 5
CS_OFFL_SIR_GOPN_2_20200216T135421_20200216T13558_C001       OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T140952_20200216T141438_C001       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T140952_20200216T141438_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, CS_OFFL_SIR_GOPN_2_20200216T150136_20200216T150404_C001       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T160324_20200216T163828_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, COG Attimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T163234_20200216T163828_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, COG Backscatter Quality PLRM, C	CS_OFFL_SIR_GOPN_2_20200216T123826_20200216T123948_C001		
CS_OFFL_SIR_GOPN_2_20200216T133421_20200216T133356_0001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200216T140952_20200216T141438_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T150136_20200216T150404_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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_20200216T163234_20200216T163626_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T164214_20200216T164339_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T171814_20200216T171839_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T171814_20200216T171839_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_GOPN_2_20200216T135020_20200216T135325_C001		5 5 5
CS_OFFL_SIR_GOPN_2_20200216114095_202002161141435_0001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_202002161150136_20200216T150404_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM, OCOG 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_GOPN_2_20200216T163234_20200216T163626_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_20200216T164214_20200216T164339_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T171814_20200216T171939_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T173248_C001       Ocean Altimeter Range, SSHA, SWH Altimeter Range 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_20200216T135421_20200216T135558_C001		
CS_OFFL_SIR_GOPN_2_20200216T150136_20200216T150404_C001       and Backscatter Quality PLRM, OCOG Atimeter Range and Backscatter Quality PLRM       The OCOG Atimeter Range and Backscatter Quality PLRM         CS_OFFL_SIR_GOPN_2_20200216T163234_20200216T163626_C001       OCOG Atimeter 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_20200216T164214_20200216T164339_C001       OCOG Attimeter 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_20200216T164214_20200216T164339_C001       OCOG Attimeter 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_20200216T171814_20200216T171939_C001       OCOG Attimeter 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_20200216T173145_20200216T173248_C001       OCOG Attimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or set for one or more records.	CS_OFFL_SIR_GOPN_2_20200216T140952_20200216T141438_C001		
CS_OFFL_SIR_GOPN_2_20200216T163234_20200216T163526_0001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200216T164214_20200216T164339_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_20200216T171814_20200216T171939_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_20200216T1771814_20200216T177348_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001       OCOG Altimeter Range and Backscatter Quality PLRM       The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20200216T150136_20200216T150404_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_2020216T174214_20200216T174339_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200216T171814_20200216T171939_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_20200216T173145_20200216T173248_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001       OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T182045_20200216T182158_C001       OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20200216T163234_20200216T163626_C001		
CS_OFFL_SIR_GOPN_2_20200216T171814_20200216T171939_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200216T182045_20200216T182158_C001       OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20200216T164214_20200216T164339_C001		
CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20200216T171814_20200216T171939_C001		
	CS_OFFL_SIR_GOPN_2_20200216T173145_20200216T173248_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPN_2_20200216T182045_20200216T182158_C001		

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20200216T194941_20200216T195404_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200216T195948_20200216T200108_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_20200216T202358_20200216T202454_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_20200216T203912_20200216T204324_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_20200216T212742_20200216T212903_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_20200216T221549_20200216T221716_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_20200216T231528_20200216T231752_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_20200216T233447_20200216T233506_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_20200216T233601_20200216T233634_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_20200216T233634_20200216T233926_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_20200216T235546_20200216T235843_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_20200216T235920_20200217T000132_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_20200216T004437_20200216T004646_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_20200216T023021_20200216T023917_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_20200216T032745_20200216T032856_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_20200216T040713_20200216T041453_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_20200216T041802_20200216T041934_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_20200216T044701_20200216T044919_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_20200216T054416_20200216T054458_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_20200216T054642_20200216T055312_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_20200216T055312_20200216T055618_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_20200216T055812_20200216T055848_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_20200216T072454_20200216T073211_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_20200216T073211_20200216T073355_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_20200216T085938_20200216T090236_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_20200216T090449_20200216T090608_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_20200216T090627_20200216T091107_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_20200216T091107_20200216T091228_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_20200216T094858_20200216T095558_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_20200216T104435_20200216T104945_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_20200216T120116_20200216T120256_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_20200216T120708_20200216T121004_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_20200216T122436_20200216T122546_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_20200216T122624_20200216T122700_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_20200216T122700_20200216T123039_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_20200216T123249_20200216T123348_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_20200216T140224_20200216T140952_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_20200216T154025_20200216T155024_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_20200216T163106_20200216T163234_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_20200216T171939_20200216T172012_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_20200216T172355_20200216T173145_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_20200216T173248_20200216T173312_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_20200216T173315_20200216T173332_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_20200216T180957_20200216T181218_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_20200216T183109_20200216T183728_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_20200216T190045_20200216T191450_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_20200216T204324_20200216T205050_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_20200216T222228_20200216T222758_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_20200216T223248_20200216T223309_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_20200216T223322_20200216T223436_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_20200216T223457_20200216T223523_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_20200216T224857_20200216T225100_C001 CS_OFFL_SIR_GOPR_2_20200216T231752_20200216T232041_C001	Ocean Aumeter Range, SSFA, SVF and Backscatter Quality PLRM, OCOG ยีปัยลูการแก๊กอยุษ หลุกรู้อาร์รรรห์รุรโฟหคiitv and Backscatter Quality PLRM, OCOG	The Ocean Aumeter Range, SSRA, SWR and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been The OCBA Yuttmeter Range, SSRA, SWR and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	Altimeter Range and Rackscatter Quality	

CS_OFFL_SIR_GOPR_2_20200216T235125_20200216T235227_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_20200216T235416_20200216T235546_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		'
Currently, there are several common flags raised in the Level 2 products, w	hich are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for pro	oducts over sea ice, which is to be expected	
Number of products with errors: 189		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measur	ement 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	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: 55		
L2 Retracking Flags (20Hz, PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM r		
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products G	SOPR and GOPN products over sea ice, but	this is to be expected.
Number of products with errors: 147		
6. GOP L2	Pole-to-Pole Data Quality	y Check
6.1 P2P Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ens	sure it consists of both an XML header file (.I	HDR) and a NetCDF product file (.nc).
Number of products with errors: 0		
6.2 P2P Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and S	PH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
6.3 P2P Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-d	etermined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
Number of products with errors: 0		
C 4 DOD Auxiliant Consection Funct Check		
6.4 P2P Auxiliary Correction Error Check		
For all products, the auxiliary corrections within the Geophysical Group are check		
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 computed the U-Wind and V-Wind components of the ECMWF model wind vector. This in the table below.		
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for pr	oducts over sea ice, but this is to be expect	ed.
> Altimetric Wind Speed Error: The error value is currently set for products over	r land and sea ice, but this is to be expected	i.
Number of products with errors: 29		
Product	Test Failed	Description
CS_OFFL_SIR_GOP_220200216T000436_20200216T005413_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perior 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_220200216T005413_20200216T014350_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_220200216T014350_20200216T023327_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_220200216T023327_20200216T032304_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_220200216T032304_20200216T041240_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_220200216T041240_20200216T050217_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_220200216T050217_20200216T055154_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_220200216T055154_20200216T064131_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_220200216T064131_20200216T073108_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\_20200216T073108\_20200216T082044\_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\_20200216T082044\_20200216T091021\_C001 Mean Sea Surface (1), Mean Dynamic Topography (1)

ean 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_GOP_220200216T091021_20200216T095958_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_220200216T095958_20200216T104935_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_220200216T104935_20200216T113911_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_220200216T113911_20200216T122848_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_220200216T122848_20200216T131825_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_220200216T131825_20200216T140802_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_220200216T140802_20200216T145738_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_220200216T145738_20200216T154715_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_220200216T154715_20200216T163652_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220200216T163652_20200216T172629_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_220200216T172629_20200216T181606_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_220200216T181606_20200216T190543_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_220200216T190543_20200216T195519_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_220200216T195519_20200216T204456_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_220200216T204456_20200216T213433_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_220200216T213433_20200216T222410_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_220200216T222410_20200216T231346_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_220200216T231346_20200217T000323_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.

Number of products with errors:

Number of products with errors:	0			
6.6 P2P Measurement Quality Flag C	heck			
P2P Quality Flags (20Hz)				
CryoSat P2P data includes Quality Flags for each 20 I	Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.			
Since the P2P Quality Flags are copied directly fro	m the L2 Quality Flags, please see Section 5.6 for the full list of products affected.			
Number of products with errors:	30			
P2P Quality Flags (20Hz PLRM)				
Since the P2P Quality Flags are copied directly fro	m the L2 Quality Flags, please see Section 5.6 for the full list of products affected.			
Number of products with errors:	28			
P2P Quality Flags (1 Hz & 1Hz PLRM)				
Since the P2P Quality Flags are copied directly fro	m the L2 Quality Flags, please see Section 5.6 for the full list of products affected.			
Number of products with errors:	29			
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.			
Number of products with errors:	25			
P2P Retracking Flags PLRM				
CryoSat L2 data includes an ocean retracking quality	lag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.			

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

Number of products with errors: 29